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(54) Title: NUCLEAR RECEPTOR STRUCTURE

(57) Abstract: The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modeling and rational drug design. The invention is directed to the glucocorticoid receptor and ligands for this receptor, and in particular to crystalline glucocorticoid receptor (GR) and to methods of identifying ligands utilizing GR, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having GR modulating or binding activity.

FIELD OF THE INVENTION

The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modeling and rational drug design. The invention is directed to the glucocorticoid receptor and ligands for this receptor, and in particular to crystalline glucocorticoid receptor (GR) and to methods of identifying ligands utilizing GR, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having GR modulating or binding activity.

BACKGROUND OF THE INVENTION

The three-dimensional structures of the ligand binding domains of the estrogen (ER) (Brzozowski, A.M., et al., M. Nature 1997, 389, 753-758), progesterone (PR) (Williams, S.P.; Sigler, P.B. Nature 1998, 393, 392-396), and of the androgen (AR) (Matias, P.M.; et al. J Biol Chem 2000, 275, 26164-26171) receptors have been determined. Knowledge of the three-dimensional structure has enabled a better understanding of the modes of ligand binding to steroidal nuclear receptors and the determination of the optimum conformation of ligand to bind to these receptors. This understanding will provide a pharmacophore model usable in the design of ligands, such as drugs, to bind to the glucocorticoid receptor. It is generally believed in the art that the AR, ER, and PR structures also provide a guide to the design of GR ligands.

Glucocorticoid steroid hormone and thus the glucocorticoid receptor (GR) is a member of the steroid hormone nuclear receptor family. Its primary natural ligand in human is cortisol. Cortisol and a large number of synthetic steroids such as dexamethasone have an agonist mechanism of action (they up-regulate genes down stream from glucocorticoid response elements (GREs)). A number of synthetic glucocorticoid antagonists have also been described in the literature and these include RU-38,486 and RU-43,044.

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Glucocorticoid Agonists

Glucocorticoid Antagonists

However, it is known that a large number of structurally diverse non-steroidal compounds such as clotrimazole, ketoconazole (WO-09932101; J. Clin. Invest. 1983, 72, 404-408.), indomethacin (Biochem. Pharmacol. 1978, 27, 1187-91.), collismycin (J. Antibiot. 1994, 47, 1072-4.), N-(2,3,3-triphenylpropyl)-2-thiopheneacetamide (WO-09933786), 4-aminotriphenyl-methanes (WO-00006137), benzopyranoquinolines (WO-09941256), benzo[3,4-f]quinolines (WO-09941257), 2-hydroxy-4-(2-hydroxyphenyl)alkylamino-substituted heterocycles (WO-00032584), (4bR,7S,8aS)-rel-4b,5,6,7,8,8a,9,10-octahydro-7-hydroxy-4b-(phenylmethyl)-7-(1-pro pynyl)-2-phenanthrenecarbonitrile (WO-0066522), and (3,5-dibromo-4-[5-isopropyl-4-methoxy-2-(3-methylbenzoyl)-phenoxy]phenyl)acetic acid (WO-09963976) also bind to the glucocorticoid receptor.

13.37

WO-00032584

It has been proposed that the receptor possesses a multi-functional modular structure potentially having discrete domains for DNA binding, ligand binding, and transactivation. The ligand binding domain (LBD) has been designated domain E and is the largest domain of the glucocorticoid receptor. The ligand binding domain includes a ligand recognition site and regions for receptor dimerization, interaction with heat shock proteins, nuclear localization and ligand dependent transactivation.

A review of the structure and functioning of the glucocorticoid receptor is provided in an article by Gustafsson, J.Å.et al., *Prog Clin Biol Res* 1990, 322, 65-80.

It is known that compounds which bind to the glucocorticoid receptor are potentially useful in the treatment a wide range of disease states. These include glucocorticoid agonists for treatment of disease linked to glucocorticoid deficiency (e.g., Addison's Disease) and for treatment of autoimmune and inflammatory diseases and glucocorticoid antagonists for treatment disease linked to glucocorticoid excess such as Cushing Syndrome and type-II diabetes. Furthermore, it is known that certain ligands such as RU-24,858, ZK-079,642, and medroprogesterone acetate display a dissociated mechanism of action (trans-repress AP-1 and/or NF-κB without transactivating through binding to classical glucocorticoid response elements). It is further known that a number of structurally diverse classes of steroidal and non-steroidal ligands are usable as agonists or antagonists to the glucocorticoid receptor, and that it is possible to modify their binding mechanics, for example the binding affinity, by changing the substituent groups at various positions on the molecule. Therefore, it would be desirable to be able to design ligands which are recognizable by and able to bind to the glucocorticoid receptor. Additionally, it would be desirable to know the three dimensional structure of the glucocorticoid receptor. Such knowledge would be useful for the design of compounds intended to bind to the glucocorticoid receptor. Difficulties in obtaining GR crystals resulted in a GR model being developed on the basis of thyroid hormone, estrogen and progesterone receptors (WO 00/52050). However, the present inventors now have been able to produce a glucocorticoid receptor crystal and to determine from that the three dimensional structure of the glucocorticoid receptor. Unexpectedly, the thus determined GR structure reveals that the AR, ER, and PR structures do not provide a

good model for binding of ligands to GR.

SUMMARY OF THE INVENTION

We have succeeded in crystallizing GR and determining its crystallographic co-ordinates. Therefore, in a first aspect the present invention provides a glucocorticoid receptor ligand binding domain crystal.

In another aspect of the invention, methods for designing ligands which will bind to GR are provided. Such methods use three-dimensional models based on the crystals of the glucocorticoid receptor. Generally, such methods comprise, determining compounds which are likely to bind to the receptor based on their three dimensional shape in particular the ligand binding domain of the GR. Preferably, those compounds have a structure which is complementary to that of the GR. Such methods comprise the steps of determining which amino acid or amino acids of the ligand binding domain of the GR interacts with the binding ligand, and selecting compounds or modifying existing compounds, to improve the interaction. Preferably, improvements in the interaction are manifested as increases in the binding affinity but may also include increases receptor selectivity and/or modulation of efficacy.

Preferably, the ligands bind to the internal GR binding cavity with a high binding affinity, for example within the range of 0.01–100 nM.

The ligands may bind tightly to the GR yet not up-regulate gene expression thereby inhibiting the action of cortisol and cortisol mimetics. Thus, the invention also provides a method of inhibiting the activity of cortisol or cortisol mimetics by providing ligands which bind to GR with a high affinity, blocking the activity of glucocorticoids. Alternatively, binding of the ligand to the GR may cause conformational changes to the GR inhibiting further binding thereto. The invention further provides a method of inhibiting cortisol activity in an animal, the method comprising administering to the animal a ligand which binds to at least the LBD, of the GR with high affinity and blocks binding of further ligands to at least the LDB of the GR. Such ligands are useful in, for example, the treatment of glucocorticoid receptor mediated diseases in humans. Preferably the ligands are identified by the

method of designing ligands according to the invention.

Protein crystallography is not routine. For example, during the process of finding a crystallisable species, a number of GR constructs were designed. The starting point was the PR crystal and the visible part of PR in electron density. Sequence alignment showed the corresponding GR position. Quite unexpectedly the constructs most similar to PR did not produce GR protein suitable for crystallisation. Over 15 additional residues were necessary for the production of GR that could be homogeneously crystallised.

DETAILED DESCRIPTION OF THE INVENTION

One aspect of the invention provides a crystal comprising at least 150 amino acid residues of the GR ligand binding domain. Preferably, the said crystal comprises at least 175, or at least 200, or at least 240 amino acid residues of GR. More preferably, said crystal contains at least 250 amino acid residues of GR. Most preferably, the said crystal comprises the entire GR amino acid sequence.

Preferably the crystal comprises the amino acid sequence shown as Leu-532 to Leu-732, especially Leu-532 to Met-745, most preferably Leu-532 to Gln-776, of a GR ligand binding domain as shown in Figure 7 or an amino acid sequence having at least 95%, especially above 97, 98 or 99% identity to the sequence. This numbering is based on the full GR sequence.

Most preferably the crystal comprises Leu-532 to Met-745, especially Leu-532 to Gln-776.

The sequences of GR1, GR2 and GR3 are shown as Seq. ID1, 2 and 3 respectively. The amino acid numbering consequently changes to reflect the sequence listing numbering. Most preferably the crystals have one or more of the properties shown in Table 1.

Preferably the aminoacid sequence of the crystal comprises Leu-35 to Leu-235, especially Leu-35 to Met-248, more preferably Leu 35 to Gln-279 of GR1 (shown as Seq. ID. No. 1). Preferably the crystal comprises the entire sequence of GR1.

The amino acid sequence of the crystal may comprise Leu-14 to Leu-214, most preferably the entire sequence of GR2 (shown as Seq ID No. 2).

Alternatively the amino acid sequence of the crystal may comprise Leu-35 to Leu-235, preferably Leu-35 to Met-248, more preferably Leu-35 to Glu-279, especially the entire sequence shown for GR3 (shown as Seq ID No. 3).

Isolated proteins consisting of the amino acid sequences listed for the crystals are also provided by the invention. The isolated proteins may be used to produce the crystals.

The proposed structural identity of parts of the GR ligand binding domain is shown below, based on the amino acid numbering of the full GR sequence in comparison with the equivalent structural elements for Estrogen Receptor Ligand binding domains.

GR#	ER#	GR residues
helix-1	(H2)	Leu-532 to Ile-539
helix-2	(H3)	Thr-556 to Lys-579
helix-3	(H5)	Leu-589 /Asp-591 to Gln-615/Ser-616
sheet-1	(S1)	Leu-621 to Cys-622/Ala-624
sheet-2	(S2)	Leu-627/Ile-628 to Ile-629
helix-4	(H7)	Met-639/Tyr-640/Cys-643 to Arg-655
helix-5	(H8)	Tyr-660 to Leu-671
sheet-3	(NA)	Ser-674 to Pro-676
sheet -4	(NA)	Ile-679 to Lys-771
helix-6	(H9)	Gln-583 to Val-702/Lys-703/Arg-704
helix-7	(H10-11)	Gln-710/Asn-711 to Leu-732/Cys-736
helix-8	(NA)	Phe-740 to Met-745
helix-9	(H12)	Phe-749 to Ile-757

NA = Not applicable (corresponding secondary structural element does not exist in ER).

An embodiment of this aspect of the invention provides a crystal produced using a sequence including helix 9 of GR. Preferably this is between Phe-749 to Ile-757, especially Leu-753 to Ile-757.

The crystals according to the invention may be usable in X-ray crystallography.

In another embodiment of the present invention there is provided a GR crystal as described above also including a ligand bound to GR or a portion thereof. Said ligand may be selected from RU-486 [(11β,17β)-11-[4-(dimethylamino)phenyl]-17-hydroxy-17-(1-propynyl)-estra-4,9-dien-3-one, CAS registry number 84371-65-3], cortisol, dexamethasone or any other ligand that binds with high affinity (<1.0 nM) to the internal GR binding cavity. The dexamethasome may be used with a coactivator ligand such as T1F2 NR-box 3.

In another embodiment of the present invention there is provided a crystal of GR LDB belonging to the space group $P2_12_12_1$ and having the unit cell dimensions a = 67.33 Å, b = 87.42 Å, c = 93.11 Å, $\alpha = \beta = \gamma = 90^{\circ}$.

In another embodiment of the present invention there is provided a crystal of GR LDB belonging to the space group P6₅ and having the unit cell dimensions a=132.09 b=132.09 c=53.048, $\alpha = \beta = 90^{\circ}$, $\gamma=120^{\circ}$.

In another embodiment of the present invention there is provided a crystal of GR LDB belonging to the space group $P2_12_12$ and having the unit cell dimensions a= 74.5, b= 109.7, c= 39.1. $\alpha = \beta = \gamma = 90^{\circ}$.

A preferred crystal belongs to the p3i space group with a pair of dimers in the

asymmetric unit, and having cell dimensions a=b=127.4, c=91.8, α = β =90°, γ =120°.

The crystals according to the invention may have a resolution as determined by X-ray crystallography of less than 3.6Å, preferably less than 2.9Å.

In another aspect of the present invention, there is provided a machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure as described above or a homologue of said crystal structure. Homologues include crystals with the same space group, but with another ligand, crystals with the same space group and substantially the same dimensions, and crystals using GR from other species such as rat.

In yet another aspect of the present invention, there is provided a method for designing a potential glucocorticoid receptor ligand for the treatment of diseases modulated by the glucocorticoid, the method comprising the steps of:

- a) employing computational means to perform a fitting operation between the chemical entity and a binding site of GR receptors identified from a crystal of the invention, machine-readable storage medium as described above or a 3D representation obtained from the storage medium;
- b) analyzing the results of the fitting operation to predict the association between the potential chemical entity and the binding site;
- c) synthesizing the potential glucocorticoid receptor ligand based on the crystal structure of the glucocorticoid receptor;
- d) assaying the glucocorticoid receptor ligand for glucocorticoid receptor binding, response in a glucocorticoid reporter cell line, measuring in vivo effects including but not limited to hepatic glucose production, marker proteins such as transamino transferase, corticotropin-releasing hormone,

or anti-inflammatory response which indicates that the compound may be used for treatment of diseases modulated by the glucocorticoid receptor.

The binding pocket residues have preferably been identified.

In yet another aspect of the present invention, there is provided a method of designing a ligand which will bind to GR comprising comparing the shape of a compound with the shape of the ligand binding domain of GR as obtained from a crystal according to the invention, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.

Ligands identified by the methods of designing ligands are also included in the scope of the invention. Preferably, there are agonists or antagonists of GR.

Preferably, the ligands interact with Arg611 and Gln642 which have been shown to be important determining the GR specificity of ligands.

In yet another aspect of the present invention, there is provided a crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human GR ligand binding domain amino acid residues MET560, LEU563, ASN564, LEU566, GLY567, GLY568, GLN570, TRP600, MET601, MET604, ALA605, LEU608, PHE623, MET646, LEU732, CYS736, ALA748 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5 Å.

A further aspect of the invention provides crystalisable compositions comprising at least 150 amino acid residues of the GR ligand binding domain.

STRUCTURE BASED DESIGN OF GR LIGANDS

The present invention elucidates the structure of the ligand binding cavity of GR.

Knowledge of the structure of this cavity has utility in the design of structurally novel GR ligands and in the design of non-obvious analogs of known GR ligands with improved properties. These enhanced properties include one or more of the following: (1) higher affinity, (2) improved selectivity for GR vs. closely related nuclear hormone receptors such as MR, and/or (3) a designed degree of efficacy (agonism vs. partial agonism vs. antagonism). Without knowledge of the GR structure, modifications to produce ligands with enhanced properties and a reasonable likelihood of success would not be available to those skilled in the art. The GR structure also has utility in the discovery of new, structurally novel classes of GR ligands. Electronic screening of large, structurally diverse compound libraries such as the Available Chemical Directory (ACD) will identify new structural classes of GR ligands which will bind to the 3-dimensional structure of the glucocorticoid receptor. Additionally the GR structure allows for "reverse-engineering" or "de novo design" of compounds to bind to GR.

(1) Enhanced Affinity

The present invention has revealed the presence of glucocorticoid receptor beta defined β - and α -face cavities centered respectively above and below the B- and C-rings of cortisol.

The present invention provides new ligands which exploit this discovery by filling the α - and β -face cavities.

Preferably, the ligand fills at least one of the α - and β -face cavities so as to displace water from the cavity or cavities.

The ligands produced in accordance with the invention bind more effectively to the GR than cortisol. The ligand may bind with twice the binding affinity of cortisol, preferably three times the affinity, and most preferably ten or more times the affinity.

Modifications to the steroid nucleus may be made at the positions marked in R in Figure 1 (α -substitution at the 7-, 9-, 12-, 14-, 16-, and 17-positions; β -substitution at

the 8-, 11-, 15-, and 18-positions). Preferably, those substituents are hydrophobic substituents, e.g., methyl, ethyl, iso-propyl, fluorine, chlorine, bromine, or iodine.

Preferably, the ligand produced in accordance with the invention fills at least one of the α - and β -cavities of the GR without perturbing the remainder of the GR structure.

(2) Improved Selectivity

The glucocorticoid receptor is closely related to the progesterone and mineralocorticoid receptors. The glucocorticoid, mineralocorticoid, and progesterone receptors differ significantly in their primary sequence and slightly in their tertiary structure. As a consequence of these receptor differences, ligands may bind with different affinity to these three receptors.

Furthermore, a detailed understanding of the different receptors enables the different behavior of a compound in different tissues to be understood, for example the glucocorticoid behavior of dissociated glucocorticoids or selective glucocorticoid receptor modulators (SGRMs) on the tissue in which it is active.

The present invention provides new ligands which exploit these differences by positioning ligand substituents in close proximity to one or more amino acid residue that differ between GR and PR, MR, or AR.

The ligands produced in accordance with the invention bind more effectively to the glucocorticoid receptor than to the mineralcorticoid, progesterone, or androgen receptor. The selectivity of the binding to the glucocorticoid receptor may be ten-fold, more preferably one hundred-fold, and most preferably greater than one thousand-fold.

This invention also provides a means of enhancing the selectivity of other classes of non-steroidal GR ligands.

(3) Modulation of Efficacy

This invention provides an understanding of the differences between glucocorticoid

and antiglucocorticoid binding and therefore a means to design GR ligands with the desired degree of efficacy. An examination of the differences between the GR/RU-486 and PR/progesterone complexes reveals a large movement in Helix-9 (Fig 4.). H9 adopts an "agonistic" conformation defined by the structure of the PR/progesterone complex and an "antagonistic" conformation defined by the structure of the GR/RU-486 complex. These two conformations are in thermodynamic equilibrium. When the GR is complexed with a full agonist, such as cortisol, the equilibrium lies far in the direction of the "agonistic" conformation. In contrast, while when complexed with an antagonist, the equilibrium is pushed in the direction of the "antagonistic" conformation. In the case of RU-486, the 11-beta aryl substituent sterically collides with H9 in its agonistic conformation, thereby driving the equilibrium strongly in the antagonistic direction. By introduction of progressively shorter side chains at 11-beta position of RU-486, the equilibrium will be gradually shifted back towards the agonist conformation. Thus, this invention provides a means of developing ligands with the desired degree of efficacy (agonist, partial agonist, or antagonist).

In particular, the importance of H9 has been determined as playing a central role in determining the efficacy (agonism vs. antagonism) of a ligand. Thus, ligands which are able to bind to and/or alter the conformation of H9 are of particular importance when designing a ligand or assessing the binding of a ligand, for the glucocorticoid receptor.

Additionally, it has been found that at least the majority of such receptor proteins when activated by binding to an agonist ligand are in the form a dimer (Khorasanizadeh S, Rastinejad F. "Nuclear-receptor interactions on DNA-response elements." Trends Biochem Sci. 2001 Jun;26(6):384-90.). Such dimerization leads to a potential route for disruption. Disruptions of this type can be used to predict antagonism or to produce antagonists. Disruptions may take the form of ligand binding which alters the conformation of the helices that comprise the dimerization interface or direct binding to the dimerization interface which then inhibits dimerization.

Further, the orientation of the ligand may be keyed to the receptor, in the dimeric or monomeric form. Furthermore, using the crystals of the present invention, the influence of ligand binding to the LDB on the receptor conformation can now be shown to have influences on the behavior of the receptor since it may disrupt the binding of co-activator, co-repressor, or heat-shock proteins. Previously, such predictions could not me made.

In the GR crystal structures identified the side chains involved in building up the ligand binding cavity are revealed. The ligand is well defined in the electron density map. Superposition of the ligand binding sites of the homologous agonist structures GR4 (dexamethasone), PR (PDB # 1A28, progesterone) and AR (PDB # 1I37, dihydrotestosterone). The A-ring side of the steroid hormone is situated in the most conserved protein side chain environment, with Phe623, Arg611, and Gln570, respectively, at identical positions (taking the error of the models in consideration). All these ligands are also very similar in their A and B-rings. On the D-ring side, on the other hand, unique features exist between different steroid ligands consistent with larger differences between corresponding cognate receptors in the D-ring-harboring part of the ligand-binding pocket. The largest variation in structure between the three receptor LBD's is seen for Gln642 (Leu797 in PR, Gln783 in AR). In GR, Gln642 makes a hydrogen bond to the 17a-hydroxy group. The position of the side-chains of the three other residues in GR-LBD that bind to the C/D-ring of the steroid (Asn564, 11b-hydroxy; Cys736, 20-keto; Thr739, 21-hydroxy) are relatively well conserved between the three structures. Thus, Gln642 appears to play a unique role in steroid recognition.

The binding of ligands is expected to alter GR activity. For example, the antihormone RU-486 (mifepristone) is an effective antiprogestin and antiglucorticoid that has shown clinical efficacy in both functions. It is also a weak antiandrogen. The function of the antagonistic action of RU-486 has been shown to be an active process and not just the blocking of agonist binding. Following the binding of RU-486, GR binds more tightly to specific DNA sequences with a slower dissociation rate. The antagonist ZK98299 appears to induce a differential PR conformation that affects the interaction with DNA. Thus, there is an interdomain functional interaction that is

dependent on the ligand bound. Further evidence of this has been found with regard to ligand-dependent phosphorylation of GR. Whereas both dexamethasone and RU-486 induce phosphorylation of Ser203, dexamethasone but not RU-486 induces phosphorylation of Ser211. This differential phosphorylation pattern was related to the intracellular location of the subspecies of GR. Binding of RU-486 blocks the binding of coactivators at the AF-2 site while simultaneously actively recruiting the binding of corepressor NCoR or SMRT. This function is again dependent on the N-terminal domain of GR although the corepressor interaction site is complex and involves sequences within the ligand-binding domain as well. In various model systems, RU-486 can act as an agonist in the absence of corepressor, acting through the N-terminal AF-1 site. The agonist function of RU-486 can also be shown for specific glucocorticoid-induced phenotypes such as the induction of p27^{Kip1}, part of the cytostatic action of glucocorticoids in osteosarcoma cells. A similar active antagonistic function of RU-486 has been shown with PR. Thus, a detailed analysis of the differences between the structures of GR bound to dexamethasone compared to RU-486 is of importance to understand how the ligand exerts different biological functions through one single receptor protein. This also shows that ligand binding is crutial to an understanding of the function of GR.

PRODUCTION OF GLUCOCORTICOID RECEPTOR CRYSTALS AND THEIR APPLICATION

The present inventors have been able to isolate, differentiate and produce crystals for the glucocorticoid receptor. Further, the differences between the GR and AR, ER, or PR receptors has been determined and, using these differences, the ability of a ligand to bind to the GR receptor or to either AR, ER, or PR can be predicted.

Preferably, the crystal is produced from a sequence comprising at least 150 amino acids, and preferably at least two hundred amino acids of GR. Preferably, the sequence comprises at least a portion of the ligand binding domain of GR. More preferably, the sequence comprises the whole ligand binding domain of GR.

Advantageously, the crystals have a resolution determined by X-ray crystallography of less than 3.6 Å and most preferably less than 2.9 Å. Preferably crystals grown using RU-486 have an effective resolution of lower than 2.9 Å.

The production of such crystals has enabled the three dimensional structure of the ligand binding domain of GR to be mapped. Use of such crystals in conjunction with the map enables a better understanding of how RU-486 and other anti-glucocorticoids bind to GR with precision. This technique can also enable the design of receptor selective glucocorticoid agonists and antagonists since now the precise differences in the binding sites between GR and the closely related AR, ER, and PR structures is now known.

Crystals of the GR binding domain can be used as models in methods for the design of synthetic compounds intended to bind to the receptor. Such models show why very slight differences in chemical moieties of a ligand potentially have widely varying binding affinities. Hence, the three dimensional structure of the ligand binding domain can be used a pharmaceutical model for compounds which bind to glucocorticoid receptors.

Embodiments of the invention will now be described in more detail, by way of example, with reference to the accompanying drawing.

Figure 1 shows modifications to the steroid nucleus to enhance its affinity for GR.

Figure 2 shows representative portions of a 2.8Å resolution SigmaA weighted 2

Fobs-Fcalc map where Fobs are the observed and Fcalc are the calculated structure-factor amplitutes and 2Fobs-Fcalc is the difference Fourier synthesis electron density map in which model error is reduced and electron density at the chosen contour (mesh diagram) approximates the molecular surface for the Ru-486-GR-LBD complex. The structure of RU-486 (tube diagram) is fitted to the experimental electron density (mesh diagram);

Figure 3 shows the GR3 crystal. The two crystallographic identical molecules are

coloured gray and dark gray.

Figure 4. Stereo picture showing the super position of GR1 (black) and GR2 (gray) and the binding of three RU-486 molecules in the asymmetric unit in the GR2 crystal form. The third RU-486 molecule in the GR 2 structure binds in the same vicinity as the approximate helix 9 position in the GR 1 structure.

Figure 5. Showing the superposition of the GR 3-dimer (light gray) and a PR monomer (black). Helix 9 undertakes a large conformational change of from the supposed agonistic position like in the PR-structure to the antagonist position in GR3. Helix 9 swings out and finds binding in a part of the coactivator pocket of an NCS molecule.

Figure 6. The dimer interface of the GR2 structure (light gray) shows that the helix 7 of the NCS molecule packs perpendicular to the N-terminal part of the NR-box II-peptide bound to the coactivator pocket in the 3ERD structure (black).

Figure 7 shows the human GR amino acid sequence aligned with the GR1, GR2 and GR3 sequences. Structural elements for the GR ligand binding domain are also shown.

DNA construction work

The human glucocorticoid receptor sequence is publicly available with accession number P04150 (SwissProt.) (Hollenberg, S. M. et al., Nature, 318: 635-41 (1985))

Over 40 different constructions have been made over the years with the goal to obtain a structure from a protein that was stable enough for crystallization and which had a fully liganded pocket and contained at least the ligand binding domain (LBD) as deduced from sequence alignment. A purification tag containing six histidine residues was also introduced at either the N- or the C-terminus with the possibility to remove by thrombin treatment.

Virus preparation

Two systems were used to create the recombinant AcNPV: BacVector (Novagen, USA) and Bac-To-Bac (Invitrogen, USA). Transfection was performed according to the manufacturers' protocols. The virus was scaled up in two steps to achieve a high titer virus stock. The virus titre was determined by a plaque assay (HyQ Bevs PlaKit, HyClone, USA).

Protein production

GR was recombinantly expressed using Bacculo virus infected insect cells. Spodoptera frugiperda (Sf9) cells (Invitrogen, USA) were maintained as suspension cultures in shake flasks and routinely passaged every third day. The serum-free medium, Sf900II (Invitrogen) was used with the addition of Gentamicin (15 mg mL⁻¹, Sigma-Aldrich). Two stirred tank reactors (Belach Bioteknik AB, Sweden), 20 and 100 L, were used for large-scale expression. Inoculum was prepared in stirred tank reactors, 3-10 L, (Belach Bioteknik AB, Sweden). The cells were cultured in Sf900II supplemented with Gentamicin (15 mg mL-1, Sigma-Aldrich), Pluronic F-68 (0.1%, Sigma-Aldrich) and Antifoam C (12ppm, Sigma-Aldrich). pH was monitored but not adjusted. The DOT was maintained at 40% by surface aeration at 3 L min⁻¹ (20L) and 5 L min⁻¹ (100L) and intermittent purging with of oxygen at 200mL min⁻¹. The inoculum in the fermentor was 0.7×10^6 cells mL⁻¹. The cells were infected with a recombinant A. californica nuclear polyhedrosis virus, AcNPV, (Novagen, Invitrogen, USA) containing the gene encoding for the hGR-LBD at approximately 1.5- 2.0 x 10⁶ cells mL-1 at MOI 5. Dexamethasone (Sigma-Aldrich) was added at the time of infection at a concentration of 6 mM. The cells were harvested after 48 hpi and pelleted in a swing-out centrifuge at 2000 rpm, 20 min, 4°C. After centrifugation the cell pellet was frozen in N₂(l) and stored at -70°C.

Protein purification

Depending on expression levels 10-50 liters worth of frozen cells was disrupted by thawing in a cold degassed extraction buffer (50 mM Tris-HCl pH 8.0, 10% glycerol, 10 mM mono thioglycerol (MTG) + 50 mM dexamethasone) with a magnetic stirrer at +4C. The ratio was kept to $2-4 \times 10^7$ cells/ml extraction volume. The supernatant was

4?

recovered after centrifugation and imidazole was added to final a concentration of 2 mM, and allowed to equilibrate with 50 ml pre-equilibrated (with extraction buffer with out MTG) Talon chelating resin (CloneTech). The His-tagged GR were then allowed to batch bind to the resin during one hour of slow rotation. Non-bound protein was eluted with extraction buffer (2.5 mM MTG) until UV-baseline was reached usually after 5-10 column volumes (CV). Unspecific proteins were removed with a salt wash, 5-10 CV (10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 200 mM NaSCN, 50 mM dexamethasone, followed by 5-10 CV of low ionic strength buffer (10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 50 mM dexamethasone). The GR was then batch eluted at 4 ml/min with 10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 50 mM imidazole and 50 mM dexamethasone. The Histidine-tag was removed by thrombin (10U/mg GR) cleavage overnight at +4°C. The cleaved protein was loaded on a Resource 30 Q cation exchange column (Amersham Biosciences, Sweden), equilibrated in A-buffer; 10 mM Tris-HCl pH 8.2, 10% glycerol, 2.5 mM DTT, 50 mM dexamethasone and subsequently eluted in a KCI gradient.

Ligand exchange

The pure protein was dialyzed (Slide-A-Lyzer, Pierce, USA) over 48 hours at +4°C against a 2x600 ml buffer containing 10 mM Tris-HCl pH 8.5-pH8.8, 2.5 mM DTT and 50 mM RU-486. GR was finally concentrated to 5-8 mg/ml in a Centriprep-30 (Millipore) for crystallization. Protein that was not immediately used was flash frozen in liquid nitrogen in 50 ml aliquots but the best crystals were obtained from fresh material.

Protein quality analysis

To elucidate the homogeneity of GR, throughout the purification samples were collected and run on SDS and native PAGE gels (Phast, Amersham Biosciences, Sweden). Reverse phase HPLC runs were performed on a Waters HPLC system. (Waters, USA) at denaturing conditions. Typically, 100 ml sample was acidified by addition of 10% acidic acid (final concentration). A sample was injected and eluted in a 25-75% acetonitrile-water gradient in 0.1% triflouroacidic acid at 1 ml/min. The method proved to be very useful to reveal problems with ligand binding and GR

stability and for determine the concentration and GR-ligand ratio.

Crystallization and data collection

Three crystal forms have been identified. The structure was first solved in the orthorhombic crystal lattice P2₁2₁2₁ to 3.5Å resolution. Later a hexagonal lattice, P6₅, was found which diffracted to better than 2.8Å and the crystallization was reproducible. The third crystal form is from another orthorhombic form P2₁2₁2, which diffracts to better than 2.8Å. Despite the problems with refining GR1 and GR2 important conclusions can be drawn using information from all three structures.

The P2₁2₁2₁ crystals - GR 1

The DNA construct for these crystals (GR 1) includes the part of the GR sequence as shown in Table 1. The pure protein was ultra centrifuged for 15 minutes at maximum speed in a Beckman ultracentrifuge prior to crystallization. Crystals grow in 1-15% PEG 8000, 0.05-0.1 M CaCl₂ and Tris pH 8.8 at 4°C. The crystals appear after less than a week and grow to a maximum size of 60x10x2 mm in heavy precipitate. Despite the very thin size they diffract to about 3Å at 17-ID at IMCA APS with a 30 second exposure. The crystals belong to the orthorhombic lattice, P2₁2₁2₁, with cell dimensions a=67.3 b=87.4 c=93.1 and have two molecules in the asymmetric unit. A collected data set was indexed and merged in HKL2000 (Otwinowski, Z. and M. W. (1997). Processing of X-ray diffraction data collected in oscillation mode. Methods in Enzymology. C. W. J. Carter and S. R.M. New York, Academic Press. 276.). The data is with 2 I/Sigma reflections to only 3.2 Å with a Rmerge of > 40% in the outer shell (Table 1). The structure was used initially before other data sets were available. The GR 1 coordinates are presented below.

Oscillation mode was as defined in Otwinoski, Z and M.W. (1997) Supra.

The P6₅ crystals – GR 2

The DNA construct for these crystals (GR 2) includes the part of the GR sequence as shown in Table 1. The pure protein was treated with enterokinase before

concentration to enzymatically remove helix 12 that was disordered in the P2₁2₁2₁ structure. GR crystals were obtained using standard vapor diffusion methods by mixing equal amounts of GR at 6 mg/ml and well solutions (1-1.5 M 1,6-hexanediol, 50 mM sodium citrate pH 5-6, 2 mM DTT at 12°C). The crystals grow as hexagonal rods in light precipitate over a period no longer than 3 weeks to a maximum size of 250x50x20 mm. The crystals were flash-cooled with the addition of 20% glycerol. On 17-ID IMCA-CAT beam line at Advanced Photon Source (APS) (Argonne National Laboratories), and a 10-second exposure, reflections could be seen to 2.5 Å on the attached ADSC Q-210 CCD detector. Several complete data sets to 2.8Å resolution could be collected and indexed in Mosflm6.11c (CCP4) and scaled in Scala (CCP4) (Table 1). The data was used to 2.8Å in subsequent refinement. The GR 2 coordinates are presented below.

The P2₁2₁2 crystals - GR 3

The DNA construct for these crystals (GR 3) includes the part of the GR sequence as shown in Table 1. This DNA construct contain three mutations. Asn517Asp to prohibit deamidation (data not shown) and the Phe602Ser mutant, which has been reported to stabilize GR for E. coli expression (Garabedian, M.J. & Yamamoto, K.R. Genetic dissection of the signaling domain of a mammalian steroid receptor in yeast. Mol Biol Cell 3, 1245-57. (1992).). Although we have not been able to verify this, nevertheless the construct also produced 2-3 times more protein in the Bacculo virus expression system as well (2-8 mg/liter). The third mutant is Cys638Asp, a surface exposed cysteine that impose problems during purification. An aspartic acid in that position helps to solubilize the GR protein. This crystal form was also crystallized at 12°C but in 15% PEG 8000, 900 mM 1,6-hexanediol, 600 mM NaSCN, 100 mM Tris pH 8.2. The crystals grow as rods to a maximum dimension of 280x80x80 mm. One crystal was cryo cooled using the well solution but with 20% PEG 8000 and 15% ethylene glycol. A complete data set to 2.8Å resolution was collected using a rotary anode source and the data was integrated in Mosflm and scaled in Scala (Table 1). The crystal belongs to the orthorhombic system P2_x2_x2_x with the cell dimensions a= 74.5 b= 109.7 c= 39.1 and has one molecule in the asymmetric unit. The GR 3 coordinates are presented below.

Structure determination and refinement

GR 1

The first structure was solved by molecular replacement in CNX (Brünger, A. T., P. D. Adams, et al. (1998). "Crystallography & NMR system: A new software suite for macromolecular structure determination." Acta Crystallogr D Biol Crystallogr 54(Pt 5): 905-21.) using a PR monomer as the search model (Williams, S. P. and P. B. Sigler (1998). "Atomic structure of progesterone complexed with its receptor." Nature 393(6683): 392-6.). Only one rotation function peak was found and a self-rotation map was quite flat. On a translation search, two solutions were above the background. The two monomers in the asymmetric unit are translationally related. This is in accordance with ultra centrifugation studies indicating that GR-LBD is a monomer in solution.

After several rounds of refinement in CNX and utilizing density modification methods like solvent flattening and NCS averaging in DM (Cowtan (1994), Newsletter on Crystallography, 31, pages 34-38), the crystallographic Rfactor was still 35% with an Rfree of 45%. Positive density in fofc maps show without doubt electron density for the ligand RU-486 and also some traces of helix 12.

GR 2

The second crystal form was solved by molecular replacement in Molrep (Vagin, A. & Teplyakov, A. MOLREP: an automated program for molecular replacement. J. Appl. Cryst. 30, 1022-1025 (1997)), using the P2₁2₁2₁ model without helix 12. Two molecules were found in the asymmetric unit related by a two fold axes. Standard procedure involving rigid body and subsequent refinement in CNX involving Torsion angle dynamics, slow cool and restrained B factor refinement utilizing restrained NSC two fold averaging. The Rfactor was 26.6% with an Rfree of 32.3%. Initial maps showed very nice density for most of the protein and particular the RU-486 molecule.

:451

GR 3

The third crystal form was solved in Molrep, using a model without helix12. One giant peak appeared in the rotation function map. A systematic search in the translation function revealed that the P22₁2₁ solution that stuck out with R 52 % and a CC 34%. After transformation to the standard setting in 2₁2₁2, refinement was started in CNX. The Rfactor dropped during the initial round of rigid body, B-factor and refinement to 39% without any manual model building. RU-486 ligands were included in the CNX refinement by building the necessary libraries using XPLO2D (Kleywegt, G. J. (1995). "Dictionaries for heteros." CCP4/ESF-EACBM Newsletter on Protein Crystallography 31: 45-50.). During the iterative refinement round the missing part of residues after 738-777 was built with the Grab_build command introduced in O version 8.04 (Jones, T. A., J. Y. Zou, et al. (1991). "Improved methods for building protein models in electron density maps and the location of errors in these models." Acta Crystallogr. A 47: 110-119.).

In the crystal structure GR 3 (Figure 3) an intermolecular disulphide is formed between the 2-fold symmetry related Cys736. Helix 12 from one molecule binds perpendicular to the cooactivation pocket a neighbouring molecule

Structure description

The overall structure is similar to that of the Progesterone receptor (PR, (Williams, S. P. and P. B. Sigler (1998) Nature 393(6683): 392-6.) but important differences can be seen be seen especially the antagonist induced conformational change after residue Asn734. The two structures can be superimposed) with and r.m.s fit on C-alpha of 0.975 Å for residues GR530-734 and PR686-889. The aligned structures share a 56.2% sequence identity. In the GR 3 structure, clear electron density (Figure 2) can be seen from most of the amino acid range from 530 to 777 of the full-length receptor sequence. There is one missing loop 759-767 after helix 12. The loop between helix 10 and helix 11 is poorly defined in the electron density map.

The structure without Helix 9

Since antagonized (GR) protein has a less rigid C-terminus which increases the difficulties to form crystals and no protein could be recovered on shorted constructs without helix 9, enterokinase was used to remove helix 9. On binding of RU-486 helix 9 becomes displaced and enterokinase sensitive. Complete removal of helix 9 could be accomplished on a few hours of cleavage at +4°C. With an agonist bound to GR (e.g. dexamethasone), the protein was only partly cleaved by enterokinase and only after a several days at +4°C (data not shown). Again the overall structure is similar to PR with the same arrangement of helices. Part of the coactivator pocket is occupied by helix 7 from the NCS molecule (FIG 6.). Helix 7 is bound approximately perpendicular to the first turn of the coactivator peptide helix from the ER-TTF complex structures (3ERD,). In the structure, clear density was seen for a third RU-486 molecule bound in-between the NSC protein molecules in Van der Wahl's contact with the two other correctly bound RU-486 molecules (FIG 4.). The protein was crystallized in excess of RU-486 ligands. The C17 extension of the third ligand reaches towards the hydrophobic part of the coactivator pocket.

The whereabouts of Helix 9 and the C-terminus

Many models have been published of GR based on PR agonist structure (see e.g. Ray, D. W., C. S. Suen, et al. (1999) Mol Endocrinol 13(11): 1855-63.) But to model an antagonist conformation is much more difficult due to the large conformational change of helix 9 that could be seen in for example the ER raloxifene structure (Brzozowski, A. M., A. C. Pike, et al. (1997) Nature 389(6652): 753-8.). To function as an antagonist the only criteria is that helix 9 must be displaced and somehow prohibit binding of the coactivator. There does not seem to be a general way to antagonize a nuclear hormone receptor making it almost impossible to model without access of direct structural data.

The dimethylaniline side chain of RU-486 prohibits binding of helix 9 in the agonist position as seen in the PR structure. Instead helix 7 is shortened and stretched out starting with the residue of the internal Cys636 whose side chain which swings or

rotates out to the surface. Interestingly an intermolecular disulphide is formed within the crystal lattice with 2-fold symmetry related cysteine from a neighboring molecule which thereby rigidifies the loop between helix 7 and helix 7a (Figure 3). The distance between the two sulphur atoms is 2.5Å. Helix 9 enters the same symmetry molecule and binds in a cavity in-between the agonist position of helix 9 from the PR structure and the coactivator pocket revealed by the ER-alpha TIF2 structures (Pike, A.C., Brzozowski, A.M. & Hubbard, R.E. J Steroid Biochem Mol Biol 74, 261-8. (2000).). But the orientation of GR helix 9 is the opposite of that of PR helix 12 (FIG 5). To our surprise a long stretch of electron density was seen on the surface between helix 6 and 7. The origin was no doubt from amino acid origin. This stretch of 10 residues matched perfectly the position of the C-terminus of PR, showing that this conformation can also be seen in an antagonized structure. This means that Helix 9 enters the neighboring molecule and the remaining part of the protein folds back and returns with the C-terminus to its parent molecule. This tail seems to be important in stabilizing the GR protein. Constructs with shorter C-terminus showed no or very low expression levels.

Table 1. Summary of data collection, processing and refinement of the three GR crystals forms.

Structure name	GR1	GR2	GR3
Construct	JY142, JY158	MF7, JY178, JY189	ЈҮ179
Sequence	500-777	519-744¹	500-777
Mutants	C638D	C638D	N517D, F602S, C638D
Space group; mol/au	P2 ₁ 2 ₁ 2 ₁ ;2	P6 ₅ ; 2	P2 ₁ 2 ₁ 2; 1
X-ray source	17-ID IMCA-CAT	17-ID IMCA-CAT	Rotating anode
Detector	MAR-CCD	ADSC Q-210	MAR 345 image plate
Wave length (Å)	1.00	1.00	1.54
_ , ,	100	100	100
Temperature (K)	48-3.5Å	48-2.8Å	40-2.8Å
Resolution (Å)	a=67.3, b=87.4, c=93.1	a=b=132.1, c=53.0	a=74.5, b=109.7, c=39.1
Unit-cell parameters (Å)	53	59	47
Protein content (%)	n/a	79024	83279
Total number of reflections	9502	13168	8219
No. of unique reflections	95	100, (80) ²	98.1 (98.0) ¹
Completeness (%)	n/a	5.3 (1.2) ³	6.7 (2.1) ²
Ι/σ	n/a	6.0	4.6
Redundancy	21.0(42.7)2	13.1 (61.1) ²	10.6 (34.8) ²
Rsym (%)	n/a	17.2 (80.6) ²	14.0 (49.0) ²
PVC4 (%)	n/a	77	43
Wilson B (Ų)	0.5	0.5	0.6
Mosaicity (°)			
Number of atoms in a.u.:	3594	3383	1952
Protein	64	96	32
Ligand	n/a	2	21
Water	n/a	0	24
Hexanediol Final Rfactor/Rfree (%)	34.4 (46.8)	26.6 (32.2)	22.8 (26.3)

¹ C-terminal end after enterokinase digestion.

² Low resolution bin due to overloads.

³ Highest resolution bin.

⁴ Pooled coefficient of variation relative to overall mean (Diederichs, K. & Karplus,

P.A. Improved R-factors for diffraction data analysis in macromolecular cyrstallography. *Nat Struct Biol* 4, 269-75 (1997).)

Crystals of GR-LBD with an Agonist

The crystal structure of the ligand binding domain of human glucocorticoid receptor in complex with agonist Dexamethasone and a coactivator peptide (TIF2 NR-box3) has been determined and refined to 2.8 Å resolution.

DNA construction work

Over 40 different constructions have been made over the years with the goal to obtain a protein that was stable enough for crystallization and which had a fully ligandated pocket and contained at least the ligand binding domain (LBD) as deduced from sequence alignment. A purification tag containing six residues was also introduced at either the N- or the C-terminus with the possibility to remove by thrombin treatment.

Virus preparation

Two systems were used to create the recombinant AcNPV: BacVector (Novagen, USA) and Bac-To-Bac (Invitrogen, USA). Transfection was done according to the manufacturers' protocols. The virus was scaled up in two steps to achieve a high titer virus stock. The virus titre was determined by a plaque assay (HyQ Bevs PlaKit, HyClone, USA).

Protein production

GR was recombinantly expressed using Bacculo virus infected insect cells. Spodoptera frugiperda (Sf9) cells (Invitrogen, USA) were maintained as suspension cultures in shake flasks and routinely passaged every third day. The serum-free medium, Sf900II (Invitrogen) was used with the addition of Gentamicin (15 µg mL⁻¹, Sigma-Aldrich).

Two stirred tank reactors (Belach Bioteknik AB, Sweden), 20 and 100 L, were used for large-scale expression. Inoculum was prepared in stirred tank reactors, 3-10 L, (Belach Bioteknik AB, Sweden). The cells were cultured in Sf900II supplemented with Gentamicin (15 µg mL⁻¹, Sigma-Aldrich), Pluronic F-68 (0.1%, Sigma-Aldrich) and Antifoam C (12ppm, Sigma)Aldrich). pH was monitored but not adjusted. The DOT was maintained at 40% by surface aeration at 3 L min⁻¹ (20L) and 5 L min⁻¹ (100L) and intermittent sparging of oxygen at 200 mL min⁻¹. The inoculum in the

fermentor was 0.7×10^6 cells mL⁻¹. The cells were infected with a recombinant A. californica nuclear polyhedrosis virus, AcNPV, (Novagen, Invitrogen, USA) containing the gene encoding for the hGR-lbd at approximately 1.5- 2.0×10^6 cells mL⁻¹ at MOI 5. Dexamethasone (Sigma-Aldrich) was added at the time of infection at a concentration of 6 μ M. The cells were harvested after 48 hpi and pelleted in a swing-out centrifuge at 2000 rpm, 20 min, 4°C. After centrifugation the cell pellet was frozen in N₂(1) and stored at 70° C.

Protein purification

Depending on expression levels 10-50 litres worth of frozen cells was disrupted by thawing in a cold degassed extraction buffer (50 mM Tris-HCl pH 8.0, 10% glycerol, 10 mM mono thioglycerol (MTG) + $50 \mu\text{M}$ dexametasone) with a magnetic stirrer at +4C. The ratio was kept to $2-4 \times 10^7$ cells/ml extraction volume. The supernatant was recovered after centrifugation and one wash step and poured into a 1-litre flask with the addition of imadazole to final a concentration of 2 mM and 50 ml a pre-equilibrated (with extraction buffer without MTG) Talon chelating resin (CloneTech). The His-tagged GR were then allowed to batch bind to the resin during one hour of slowly rotation. This step was crucial for speed and to have an even distribution of GR in the resin. The slurry was briefly centrifugated 700 x g for 2 minutes and most of the supernatant was discarded. The matrix was transferred to an XK50 column (Amersham-Pharmacia Biotech) and manually packed in the cold room with the high flow rate given by the gravity. Non-bound protein was eluted with extraction buffer (2.5 mM MTG) until UV-baseline was reached usually after 5.10 column volumes (CV). Unspecific proteins were removed with a salt wash, 5-10 CV (10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 200 mM NaSCN, 50 μM dexametasone, followed by 5-10 CV of low ionic strength buffer (10 mM Tris-HCl pH8.0, 10% glycerol, 2.5 mM MTG, 50 µM dexametasone). The XK50 column was then connected to an FPLC-system (Amersham-Pharmacia Biotech) at +4C. The GR was then batch eluted at 4 ml/min with 10 mM Tris-HC1 pH8.0, 10% glycerol, 2.5 mM MTG, 50 mM immidazole and 50 µM dexametasone. The Histidine-tag was removed by thrombin (10U/mg GR) cleavage overnight at +4C. The cleaved protein was loaded on a Resource 30 Q cation exchange column (Amersham-Pharmacia

Biotech). The GR was washed at 1 ml/min in A-buffer; 10 mM Tris-HC1 pH 8.2, 10% glycerol, 2.5 mM DTT, 50 μM dexametasone and subsequently eluted in a KC1 gradient. The main peak was collected, at ~100-125 mM KCl, and diluted one time with the A-buffer without ligand and concentrated with a Centriprep-30 (MilliPore) to 8-40 mg/ml.

Crystallization, data collection and structure solution

Crystals were grown using hanging drop vapor diffusion methods. By mixing 1:1 of protein with the presence of TIF2 NR-box 3 peptide with well solution containing, 10-15% PEG550 MME, 0.1-0.2 M MgCl and Hepes pH 7.6. Crystal were grown at 10°C and appeared after 1 day and grew over a week to maximum dimension of 100x100x50 micrometer. Crystals were flash cooled in liquid nitrogen gas stream with the addition of extra PEG550 MME. A full dataset to 2.8Å could be collected on ID14-4 beamline at ESRF, France. The data was indexed and processed in Mosflm and scaled in Scala.

The crystals belong to the triclinic space group P3₁ with a pair of dimers in the assymetric unit. The solvent content is 65% and cell dimensions are a=b=127.4, c=91.8, α = β =90°, γ =120°. The structure was solved by molecular replacement using Molrep and a model based on the coordinates of the antagonist form of GR-LDB solved at Karo Bio previously, together with the N-terminal part of the progesterone receptor.

ANNEX

```
GR 1
REMARK coordinates from simulated annealing refinement
REMARK refinement resolution: 20.0 - 3.2 A
REMARK starting r= 0.3642 free r= 0.4500
REMARK final
                r = 0.3436 free r = 0.4685
REMARK rmsd bonds= 0.009741 rmsd angles= 1.63529
REMARK wa initial= 14.7646 wa dynamics= 16.8608 wa final= 18.2355
REMARK target= mlf md-method= torsion annealing schedule= slowcool
REMARK starting temperature= 3500 total md steps= 140 * 6
REMARK sg= P2(1)2(1)2(1) a= 67.331 b= 87.423 c= 93.109 alpha= 90.000 beta= 90.000
gamma≈ 90.000
REMARK parameter file 1 : MSI CNX TOPPAR: protein rep.param
REMARK parameter file 2 : MSI CNX TOPPAR:water rep.param
REMARK parameter file 3 : MSI CNX TOPPAR:ion.param
REMARK molecular structure file: gen.mtf
REMARK input coordinates: ../Quanta/x3in.pdb
REMARK reflection file= gr31401c.cv
REMARK ncs= restrain ncs file= ncs2.def
REMARK B-correction resolution: 6.0 - 3.2
REMARK warning: B-correction gave atomic B-values less than zero
                they have been reset to zero
REMARK
REMARK B-factor correction applied to coordinate array B: -1.232
REMARK bulk solvent: (Mask) density level= 0.323811 e/A^3, B-factor= 40.0116 A^2
REMARK reflections with |Fobs|/sigma F < 0.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
                                                                 9452 ( 100.0 % )
REMARK theoretical total number of refl. in resol. range:
REMARK number of unobserved reflections (no entry or |F|=0):
                                                                1105 ( 11.7 % )
                                                                          0.0 %)
REMARK number of reflections rejected:
                                                                    0 (
                                                                 8347 ( 88.3 % )
REMARK total number of reflections used:
                                                                7481 ( 79.1 % )
REMARK number of reflections in working set:
                                                                 866 (
                                                                          9.2 %)
REMARK number of reflections in test set:
REMARK FILENAME="x3out 1.pdb"
                                         created by user: jakobc
REMARK DATE:Mar-23-2001 17:22:01
REMARK Written by CNX VERSION:2000
                                                                               C
                                17.370 82.851
                                                 9.433 1.00 10.49
          1 CB THR A 531
ATOM
                                17.599 81.601 10.104 1.00 9.94
                                                                          A
          2 OG1 THR A 531
MOTA
                                                  9.802 1.00 9.76
                                                                               C
                                15.970 83.353
          3 CG2 THR A 531
ATOM
                                18.675 81.742
                                                                          A
                                                                               C
                                                 7.570 1.00 9.15
                 THR A 531
MOTA
                                                                               0
                                                  6.496 1.00 8.58
                                                                          Α
                                18.740 81.143
                 THR A 531
          5 0
ATOM
                                                                               N
                                16.202 82.064
                                                 7.355 1.00
                                                               9.48
                                                                          A
          6 N
                 THR A 531
ATOM
                                                                               C
                                17.476 82.652
                                                 7.893 1.00 9.78
                                                                          A
          7 CA THR A 531
ATOM
                                                                               N
                                19.629 81.659
                                                  8.489 1.00 B.00
          8 N
                 LEU A 532
ATOM
                                                 8.293 1.00 8.09
                                                                          A
                                                                               C
                                20.788 80.799
          9 CA LEU A 532
ATOM
                                                                               C
                                22.051 81.619
                                                  8.049 1.00 9.46
                                                                          A
         10 CB LEU A 532
MOTA
                                                                          A
                                        80.775
                                                  7.817 1.00 11.09
         11 CG LEU A 532
                                23.313
ATOM
                                                                               C
                                23.086 79.759
                                                  6.698 1.00 12.14
         12 CD1 LEU A 532
MOTA
                                                                          A
                                                  7.474 1.00 12.26
             CD2 LEU A 532
                                 24.471 81.696
         13
ATOM
                                                  9.503
                                 20.991
                                         79.900
                                                         1.00
ATOM
         14
             C
                 LEU A 532
                                                         1.00
                                                               6.48
                                                                          Α
                                                                               0
                                                  9.471
                                         78.978
                 LEU A 532
                                 21.802
ATOM
         15
             0
                                                                               N
                                         80.188
                                                 10.577
                                                         1.00
                                                               7.40
                                                                          A
                                 20.264
                 VAL A 533
ATOM
         16
             N
                                                                               C
                                         79.377
                                                 11.777
                                                         1.00
                                                               5.56
                                                                          A
                 VAL A 533
                                 20.337
             CA
ATOM
         17
                                                                               C
                                                               2.78
                                                                          A
                 VAL A 533
                                 20.235
                                         80.218
                                                 13.057
                                                         1.00
ATOM
         18
             CB
                                                                               C
                                         79.313
                                                 14.267
                                                               1.48
                                                                          A
             CG1 VAL A 533
                                 20.129
                                                         1.00
ATOM
         19
                                                                               C
                                                               0.93
                                                                          A
                                                 13.197
                                                         1.00
                                         81.082
MOTA
         20
             CG2 VAL A 533
                                 21.460
                                                                               C
                                                               6.41
                                         78.444
                                                 11.709
                                                         1.00
                                                                          A
                 VAL A 533
                                 19.144
ATOM
         21
             C
                                                                               0
                                         77.352
                                                 12.275
                                                         1.00
                                                               7.82
                                                                          A
                 VAL A 533
                                 19.157
         22
             0
ATOM
                                                                               N
                                                         1.00
                                                                          A
                                 18.117
                                         78.874
                                                 10.987
                                                               6.70
                 SER A 534
MOTA
         23
             N
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                                                               6.99
                                         78.084
                                                 10.849
                                                                          A
                 SER A 534
                                 16.910
                                                         1.00
         24
             CA
ATOM
                                                                               C
                                                                          A
                                                 10.141
                                                               5,93
                                         78.916
                                                        1.00
             CB
                 SER A 534
                                 15.859
ATOM
         25
                                                                               0
                                                               3.58
                                                                          A
                                         80.066
                                                 10.914
                                                         1.00
                 SER A 534
MOTA
         26
             OG
                                 15.584
                                                                               C
                                                 10.135
                                                         1.00
                                                               7.68
                                                                          A
                                         76.747
                 SER A 534
                                 17.140
MOTA
         27
             C
                                                                               0
                                                               6.28
                                                                          A
                                         75.709
                                                 10.573
                                                         1.00
                 SER A 534
                                 16.632
         28
             0
ATOM
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                                                  9.034
                                                         1.00
                                                               7,43
                                                                          A
                 LEU A 535
                               17.886
                                         76.745
            N
         29
MOTA
                                                                              Ç
                                                  8.378
                                                         1.00
                                                               6.23
                                                                          A
                 LEU A 535
                                 18.144
                                         75.471
ATOM
             CA
         30
                                                                               C
                                                  7.061
                                                               4.05
                 LEU A 535
                                         75.653
                                                         1.00
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             CB
                                 18.894
ATOM
         31
                                                                               Ç
                                                  7.032
                                                         1.00
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                 LEU A 535
                                 20.156
                                         76.496
         32
             CG
ATOM
                                                                               C
                                                  5.756
                                                         1.00
                                                               4.78
                                                                          A
                                 20.920
                                         76.201
         33
             CD1 LEU A 535
ATOM
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                                                  7.123
                                                               3.69
                                        77.961
                                                         1.00
                                                                          A
             CD2 LEU A 535
                                 19.791
         34
MOTA
                                                                               C
                                                               6.12
                                                  9.369
                                                                          A
                                         74.664
                                                         1.00
                 LEU A 535
                                 18.975
ATOM
         35
             C
                                                                               0
                                                  9.689
                                                               6.16
                                                                          A
                                         73.528
                                                         1.00
                 LEU A 535
                                 18.636
             0
ATOM
         36
                                                                               N
                                                  9.869
                                                        1.00
                                                               6.13
                                                                          A
                 LEU A 536
                                         75.265
         37
                                 20.053
MOTA
             И
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                                                                          A
                 LEU A 536
                                 20.891
                                         74.603
                                                 10.864
                                                         1.00
                                                               5.42
ATOM
         38
             CA
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                                                 11.599
                                                         1.00
                                                               2.05
                                                                          A
                 LEU A 536
                                 21.785
                                        75.610
             CB
MOTA
         39
                                                                               C
                                                                          A
                                         76.239
                                                 10.929
                                                        1.00
                                                               0.00
                 LEU A 536
                                 23.002
             CG
ATOM
                                                                               CCC
                                                 11.959
                                                               0.00
                                         77.057
                                                         1.00
             CD1 LEU A 536
                                 23.777
ATOM
         41
                                                                          A
                                        75.157
                                                 10.360
                                                        1.00
                                                               0.00
             CD2 LEU A 536
                                 23.879
MOTA
         42
                                 19.935 73.984
                                                11.876 1.00
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                                                              6.65
                 LEU A 536
MOTA
         43
            C
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ATOM	44	0	LEU	A 536	20.011	72.796	12.183	1.00	5.88	A	0
ATOM	45	N	CT.II	A 537	19.028	74.813	12.379	1.00	6.98	A	N
				A 537	18.034	74.374	13.346	1.00	7.20	A	С
ATOM	46	CA					13.374	1.00	5.84	A	С
ATOM	47	CB		A 537	16.852	75.350					Č
ATOM	48	CG	GLU	A 537	15.535	74.742	13.883	1.00	2.71	A	
ATOM	49	CD	GLU	A 537	15.340	74.915	15.366	1.00	1.81	A	С
ATOM	50	OE1	GLU	A 537	16.353	75.046	16.069	1.00	0.00	A	0
				A 537	14.179	74.910	15.827	1.00	1.49	A	0
MOTA	51	OE2						1.00	7.81	A	Č
MOTA	52	C		A 537	17.508	72.984	13.026				
ATOM	53	Q	GLU .	A 537	17.641	72.055	13.829	1.00	9.37	A	0
ATOM	54	N	VAI.	A 538	16.926	72.841	11.843	1.00	7.03	A	N
				A 538	16.336	71.575	11.458	1.00	6.67	A	C
ATOM	55	CA						1.00	7.82	A	C
ATOM	56	CB		A 538	15.099	71.843	10.548				
ATOM	57	CG1	VAL	A 538	13.870	72.173	11.412	1.00	5.42	A	C
ATOM	58	CG2	VAL	A 538	15.381	73.030	9.619	1.00	7.08	A	C
	59	C		A 538	17.243	70.483	10.852	1.00	6.98	A	С
ATOM							10.451	1.00	7.93	A	0
ATOM	60	0		A 538	16.755	69.430					Ŋ
ATOM	61	N	ILE	A 539	18.554	70.712	10.797	1.00	7.66	A	
ATOM	62	CA	ILE	A 539	19.471	69.690	10.266	1.00	7.52	A	C
ATOM	63	CB	ILE .	A 539	20.483	70.261	9.202	1.00	7.78	A	С
				A 539	19.772	71.197	8.240	1.00	8.38	A	С
MOTA	64	CG2					9.889	1.00	5.14	A	Ċ
ATOM	65	CG1		A 539	21.622	71.015					č
ATOM	66	CD1	ILE	A 539	22.733	71.376	8.958	1.00	1.63	A	
ATOM	67	С	ILE	A 539	20.282	69.098	11.426	1.00	7.61	A	C
ATOM	68	Ö		A 539	21.271	68.386	11.222	1.00	7.15	A	0
				A 540	19.854	69.417	12.641	1.00	7.08	A	N
ATOM	69	Ň					13.846	1.00	6.48	A	C
MOTA	70	CA		A 540	20.510	68.950					
MOTA	71	CB		A 540	20.218	69.922	14.991	1.00	7.02	A	C
ATOM	72	CG	GLU .	A 540	21.410	70.745	15.441	1.00	10.25	A	С
ATOM	73	CD	_	A 540	22.081	71.478	14.296	1.00	12.97	A	C
		OE1		A 540	23.049	72.246	14.534	1.00	13.29	A	0
ATOM	74						13.148		13.53	A	0
MOTA	75	QE2		A 540	21.635	71.279					
ATOM	76	С	GLU .	A 540	20.043	67.540	14.210	1.00	5.41	A	C
ATOM	77	0	GLU .	A 540	19.021	67.365	14. B73	1.00	4.81	A	0
ATOM	78	N		A 541	20.794	66.515	13.775	1.00	4.19	A	N
				A 541	22.118	66.600	13.126	1.00	2.90	A	С
ATOM	79	CD					14.059	1.00	3.73	A	C
ATOM	80	CA		A 541	20.456	65.123					
ATOM	81	CB	PRO .	A 541	21.824	64.460	14.045	1.00	3.12	A	С
ATOM	82	CG	PRO .	A 541	22.473	65.155	12.893	1.00	3.20	A	С
ATOM	83	C		A 541	19.710	64.964	15.385	1.00	3.10	A	C
				A 541	19.994	65.688	16.345	1.00	1.61	A	0
ATOM	84	0						1.00	2.43	A	N
MOTA	85	N		A 542	18.767	64.016	15.436				
ATOM	86	CA	GLU .	A 542	17.965	63.804	16.641	1.00	3.09	A	C
ATOM	87	CB	GLU	A 542	16.535	63.380	16.251	1.00	3.65	A	С
ATOM	88	CG		A 542	15.440	64.127	17.060	1.00	5.77	A	C
					14.017	63.956	16.502	1.00	6.88	A	С
ATOM	89	CD	_	A 542							Ö
ATOM	90	OE1	GLU .	A 542	13.826	64.177	15.283	1.00	7.55	A	
ATOM	91	OE2	GLU :	A 542	13.088	63.619	17.287	1.00	5.07	A	0
ATOM	92	С	GLU Z	A 542	18.526	62.860	17.715	1.00	3.12	A	С
ATOM	93	O		A 542	19.414	62.051	17.458	1.00	2.31	A	0
				A 543	17.998	63.017	18.929	1.00	3.73	A	N
ATOM	94	N					20.115	1.00	3.10	A	C
ATOM	95	CA		A 543	18.370	62.241					
ATOM	96	CB	VAL .	A 543	17.197	62.204	21.125	1.00	1.86	A	C
ATOM	97	CG1	VAL :	A 543	17.264	63.376	22.090	1.00	1.42	A	C
ATOM	98	CG2	VAL	A 543	15.882	62.253	20.367	1.00	0.28	A	C
	99	C		A 543	18.745	60.806	19.796	1.00	3.08	A	С
ATOM					17.874	59.995	19.520	1.00	4.06	A	Ō
ATOM	100	0	VAL .						2.67		N
ATOM	101	N		A 544	20.034	60.488	19.837	1.00		A	
ATOM	102	CA		A 544	20.470	59.124	19.552	1.00	4.11	A	C
ATOM	103	CB	LEU :	A 544	21.998	59.020	19.479	1.00	6.58	A	С
ATOM	104	CG	LEU 2	A 544	22.657	59.317	18.125	1.00	8.79	A	С
	105	CD1		A 544	24.142	58.987	18.179	1.00	8.45	A	C
ATOM							17.034	1.00	9.79	A	Č
ATOM	106	CD2		A 544	21.990	58.495					
ATOM	107	C	TEO :	A 544	19.965	58.165	20.613	1.00	4.34	A	C
ATOM	108	0	LEU :	A 544	20.399	58.204	21.760	1.00	3.37	A	0
ATOM	109	N		A 545	19.041	57.300	20.217	1.00	5.72	A	N
	110	CA		A 545	18.472	56.324	21.136	1.00	4.06	A	C
MOTA							20.785	1.00	1.37	Ą	Č
ATOM	111			A 545	16.996	56.060					
MOTA	112	ÇG		A 545	16.023	56.763	21.695	1.00	0.00	A	C
ATOM	113	CD1	TYR 2	A 545	16.070	56.568	23.062	1.00	0.00	A	С
ATOM	114	CE1		A 545		57.169	23.913	1.00	0.00	5. A	С
	115	CD2		A 545	15.021	57.584	21.183	1.00	0.00	A	C
ATOM							22.026	1.00	0.00	A	Č
ATOM	116	CE2		A 545	14.071	58.191					
MOTA	117	CZ		A 545	14.132	57.974	23.386	1.00	0.00	A	C
ATOM	118	OH	TYR Z	A 545	13.176	58.496	24.218	1.00	0.00	A	0
ATOM	119	C		A 545	19.281	55.021	21.140	1.00	4.25	A	C
	120	Ö		A 545	19.087	54.119	20.317	1.00	4.51	A	0
ATOM							22.092	1.00	2.99	A	N
ATOM	121	N		A 546	20.195	54.946					
MOTA	122	CA		A 546	21.039	53.784	22.245	1.00	4.16	A	C
ATOM	123	CB	ALA	A 546	22.185	54.106	23.211	1.00	4.14	A	C
ATOM	124	C		A 546	20.225	52.603	22.772	1.00	4.78	A	C
WI OIL	~~ *	_		510	-0.220	,	-			_	

ACCRA 125										•
MATCH 126	δΩΟΜ	125 0	ALA A 546						A A	N N
ARCH 127 CA GLY A 547 120.55 1.065 25.113 1.00 5.60 A C ARCH 129 O GLY A 547 22.55 10.47 24.598 1.00 6.37 A O ARCH 129 O REPART 120.55 1.100 1.200 6.37 A O ARCH 129 O REPART 120.55 1.100 1.200 6.37 A O ARCH 129 O REPART 120.55 1.100 1.200 6.37 A O ARCH 129 O REPART 120.55 1.100 1.200 6.37 A O ARCH 120 O REPART 120.55 1.100 1.200 6.37 A O ARCH 120 O REPART 120.55 1.100 1.200 6.37 A O ARCH 120 C REPART 120.55 1.100 1.200 6.37 A O ARCH 120 C REPART 120.55 1.100 1.200 6.37 A O ARCH 130 C REPART 120.55 1.100 1.200 6.37 A O ARCH 130 C REPART 120.55 1.100 1.200 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.200 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.200 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.100 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.100 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.100 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.100 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.100 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.100 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.100 9.30 A O C ARCH 130 C REPART 120.55 1.100 1.100 9.30 A O C ARCH 130 C REPART 120.55 1.100 9.100 9.100 A O C ARCH 130 C REPART 120.55 1.100 9.100 9.100 A O C ARCH 130 C REPART 120.55 1.100 9.100 9.100 A O C ARCH 130 C REPART 120.55 1.100 9.100 9.100 9.100 A O C ARCH 130 C REPART 120.55 1.100 9.100 9.100 9.100 A O C ARCH 130 C REPART 120.55 1.100 9.10			GLY A 547							
ARON 128 C	MOTA						_,	-	A	
ATOM 130 N TYR A 548							1.00			
MON 131 CA TYR A 548 20.488 50.349 24.867 1.00 9.30 A C			TYR A 548				4 • • •			
122 CB			TYR A 548							
NOTE 133 CG										
AROM 136 CD1 TYR A 548 21.093 11.511 31.792 1.00 9.33 A C AROM 136 CD1 TYR A 548 23.017 50.00 10.10 10.0 10.10 A C AROM 136 CD2 TYR A 548 23.017 50.637 29.885 1.00 8.65 A C AROM 138 CZ TYR A 548 24.032 50.447 29.885 1.00 8.65 A C AROM 138 CZ TYR A 548 24.032 50.447 29.885 1.00 8.65 A C AROM 138 CZ TYR A 548 24.032 50.447 29.885 1.00 8.65 A C AROM 138 CZ TYR A 548 24.000 50.689 31.250 1.00 9.160 A C AROM 138 CZ TYR A 548 24.000 50.689 31.250 1.00 9.160 A C AROM 140 CZ TYR A 548 18.729 48.884 27.161 1.00 9.53 A C AROM 140 CZ TYR A 548 18.729 48.884 27.161 1.00 9.53 A C AROM 140 CZ TYR A 548 18.729 48.884 27.161 1.00 9.53 A C AROM 140 CZ TYR A 548 18.729 48.884 27.161 1.00 9.53 A C AROM 140 CZ TYR A 548 18.729 48.884 27.161 1.00 9.56 A A C AROM 142 CR ASP A 549 20.202 46.984 28.696 1.00 8.90 A C C AROM 142 CR ASP A 549 22.325 45.713 28.806 1.00 8.90 A C C AROM 147 COD 2.85 A 549 22.325 45.713 28.806 1.00 8.48 A O C AROM 147 COD 2.85 A 549 22.325 45.713 28.805 1.00 8.48 A O C AROM 147 COD 2.85 A 549 22.022 45.973 26.805 1.00 8.48 A O C AROM 149 O ASP A 549 18.00 46.855 29.072 1.00 8.25 A N AROM 145 C ASP A 549 18.00 46.855 29.072 1.00 8.25 A N AROM 151 CA SER A 550 19.168 69.00 18.00 18.00 18.00 19.00 1							-			
AROM 145 CL 14 R. A. 548 22.017 50.635 29.048 1.00 10.10 A C NOT STATE AND S	ATOM		1 TYR A 548							С
137 CEZ TYR R 548 24, 132 50,447 29,885 1,00 8,65 A C C C C C C C C C										
ATOM 138 CZ TYR A 548						29.885				
ATOM 140 C TYR A 548 25.070 50.503 32.102 1.00 9.53 A C NOTOM 141 C TYR A 548 18.729 48.881 27.719 18.719 1.00 9.53 A C NOTOM 141 C TYR A 548 18.729 48.882 27.8157 1.00 19.56 A N NOTOM 142 C A ASP A 549 20.701 48.22 28.8157 1.00 9.86 A N N C NOTOM 143 C A ASP A 549 20.202 46.894 29.173 1.00 9.96 A C N T N T N T N T N T N T N T N T N T N										
AROM 140 C TYRA 548 19.935 49.135 1.00 10.36 A O NATOM 142 N ASP A 549 20.703 48.292 28.317 1.00 9.86 A N AROM 142 N ASP A 549 20.703 48.292 28.317 1.00 9.86 A N AROM 143 CA ASP A 549 20.703 48.292 28.317 1.00 9.95 A C AROM 144 CB ASP A 549 20.703 48.292 28.317 1.00 9.09 A C AROM 144 CB ASP A 549 20.703 48.292 28.317 1.00 9.09 A C AROM 144 CB ASP A 549 20.703 48.292 28.317 1.00 9.09 A C AROM 146 CD ASP A 549 20.703 48.292 28.317 1.00 9.09 A C AROM 147 OD2 ASP A 549 20.323 45.713 28.044 1.00 8.79 A C AROM 147 OD2 ASP A 549 22.322 45.973 26.855 1.00 8.48 A C AROM 148 C ASP A 549 19.236 47.303 29.829 1.00 8.25 A C AROM 148 C ASP A 549 19.236 47.303 29.829 1.00 8.25 A C AROM 150 O ASP A 549 19.236 47.303 29.829 1.00 8.25 A C AROM 150 O ASP A 549 19.236 47.303 29.829 1.00 8.25 A C AROM 151 O ASP A 549 19.236 47.303 29.829 1.00 8.25 A N AROM 152 CB SER A 550 18.073 39.317 31.347 1.00 10.47 A C AROM 152 CB SER A 550 18.073 39.317 31.347 1.00 10.47 A C AROM 152 CB SER A 550 18.033 50.167 30.257 1.00 12.73 A D C AROM 155 CB SER A 550 18.033 50.167 30.257 1.00 12.73 A D C AROM 155 CB SER A 550 17.166 47.038 32.794 1.00 8.38 A O R AROM 155 CB SER A 550 17.166 47.038 32.794 1.00 8.38 A O R AROM 155 CB SER A 551 19.047 45.392 31.313 1.347 1.00 10.47 A C AROM 157 CB SER A 551 19.047 45.392 31.313 1.00 10.775 A C AROM 157 CB SER A 551 19.047 45.392 31.313 1.00 10.775 A C AROM 159 CB SER A 551 19.047 45.392 31.313 1.00 10.775 A C AROM 157 CB SER A 551 19.047 45.392 31.313 1.00 10.775 A C AROM 157 CB SER A 551 19.047 45.392 31.313 1.00 10.07 P.55 A C AROM 163 CB SER A 551 19.047 45.392 31.313 1.00 10.07 P.55 A C AROM 163 CB AVAL A 552 21.548 41.323 31.183 1.00 P.75 A C AROM 163 CB AVAL A 552 21.548 41.323 31.313 1.00 P.75 A C AROM 163 CB AVAL A 552 21.548 41.323 31.313 1.00 P.75 A C AROM 163 CB AVAL A 552 21.548 41.323 31.313 1.00 P.75 A C AROM 163 CB AVAL A 552 21.548 41.423 31.411 1.00 E.58 A A C AROM 163 CB AVAL A 552 21.548 41.423 31.411 1.00 E.58 A A C AROM 163 CB AVAL A 552 21.548 41.359 31.00 P.75 A C C AROM 167 C AROM 1			TYR A 548			_		•		
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ATOM 201 CD2 TRP A 557 30.984 44.542 30.992 1.00 0.31 A C ATOM 202 CE2 TRP A 557 30.371 43.719 31.964 1.00 0.33 A C ATOM 203 CE3 TRP A 557 30.524 44.480 29.668 1.00 0.00 A C ATOM 204 CD1 TRP A 557 31.970 44.916 32.973 1.00 0.00 A N						31.663	1.00	1.02		
ATOM 202 CE2 TRP A 557 30.371 43.719 31.964 1.00 0.33 A C ATOM 203 CE3 TRP A 557 30.524 44.480 29.668 1.00 0.00 A C ATOM 204 CD1 TRP A 557 31.970 44.916 32.973 1.00 0.00 A N					44.542	30.992	1.00			
ATOM 203 CE3 TRP A 557 30.524 44.480 29.868 1.00 0.00 A C ATOM 204 CD1 TRP A 557 31.970 44.916 32.973 1.00 0.00 A N				30.371	43.719					
ATOM 204 CD1 TRP A 557 31.970 44.910 32.973 1.00 0.00 A N		203 0	E3 TRP A 557				_			
ATOM 205 NEI TRE A 557 50.552	MOTA									
	MOTA	∠U5 1	NEL TRE A 33/	50.552						

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ATOM	206	CZ2	TRP A	. 557	29.325	42.848	31.652	1.00 0.00		C
ATOM	207	CZ3	TRP A	557	29.477	43.609	29.364	1.00 0.00	A	С
		CH2	TRP A		28.894	42.811	30.349	1.00 0.00	A	C
ATOM	208							1.00 3.31		C
ATOM	209	С	TRP A	. 557	31.162	47.918	30.270			
ATOM	210	0	TRP A	557	31.187	48.021	29.044	1.00 3.21	A	0
ATOM	211	N	ARG A		30.031	47.925	30.968	1.00 3.04	A	N
					28.750	48.016	30.281	1.00 2.87	A	C
ATOM	212	CA	ARG A							Č
MOTA	213	ÇВ	ARG A	558	27.622	47.457	31.161	1.00 2.86		
MOTA	214	CG	ARG A	558	26.312	47.262	30.425	1.00 4.01	A	C
		CD	ARG A		25.333	46.423	31.220	1.00 7.57	A	C
ATOM	215					45.012	30.818	1.00 12.59		N
ATOM	216	NE	ARG A		25.339					
ATOM	217	CZ	ARG A	. 558	26.196	44.090	31.261	1.00 14.76		C
ATOM	218	NH1	ARG A	558	27.140	44.417	32.138	1.00 17.10	A	N
					26.106	42.838	30.828	1.00 16.31	A	N
MOTA	219	NH2	ARG A					1.00 2.65		C
MOTA	220	С	ARG A	. 558	28.469	49.455	29.870	_		
ATOM	221	0	ARG A	558	27.534	49.732	29.115	1.00 2.16		0
ATOM	222	N	ILE A		29.285	50.377	30.367	1.00 2.98	A	Ŋ
			ILE A		29.125	51,778	30.001	1.00 3.70	A	С
MOTA	223	CA						1.00 4.31		C
ATOM	224	CB	ILE A		29.390	52.729	31.201			
ATOM	225	CG2	ILE A	. 559	30.837	52.652	31.647	1.00 4.63		С
ATOM	226	CG1	ILE A	559	29.072	54.167	30.791	1.00 5.80	A	C
			ILE A		27.642	54.384	30.287	1.00 8.06	A	C
atom	227	CD1						1.00 3.12		C
ATOM	228	C	ILE A		30.082	52.108	28.852			
ATOM	229	0	ILE A	559	29.657	52.533	27.784	1.00 3.11		0
MOTA	230	N	MET A	560	31.371	51.889	29.067	1.00 1.78	A	N
	231	CA	MET A		32.351	52.162	28.043	1.00 0.00	A	C
ATOM						51.696	28.516	1.00 0.00		C
ATOM	232	CB	MET A		33.706					č
MOTA	233	CG	MET A	560	34.065	52.360	29.819	1.00 0.00		
ATOM	234	SD	MET A	560	33.962	54.164	29.667	1.00 0.17		S
ATOM	235	CE	MET A		35.595	54.651	30.118	1.00 0.49	A	C
					31.940	51.453	26.785	1.00 0.00		С
ATOM	236	C	MET A							ō
ATOM	237	0	MET A	560	32.155	51.951	25.680			
ATOM	238	N	THR A	561	31.320	50.293	26.962	1.00 0.00		N
ATOM	239	CA	THR A	561	30.845	49.496	25.837	1.00 0.00	A	C
			THR A		30.312	48.143	26.320	1.00 0.00	A	С
MOTA	240	CB						1.00 0.00		0
ATOM	241	OG1			31.399	47.388	26.856			
ATOM	242	CG2	THR A	561	29.665	47.366	25.173	1.00 0.00		C
ATOM	243	С	THR A	561	29.732	50.244	25.118	1.00 1.27	A	С
ATOM	244	Õ	THR A		29.903	50.726	23.994	1.00 0.00	A	0
					28.584	50.332	25.780	1.00 3.02	A	N
MOTA	245	N	THR A							Ċ
ATOM	246	CA	THR A	562	27.453	51.039	25.214	1.00 3.36		
MOTA	247	CB	THR A	562	26.378	51.288	26.271	1.00 2.18		C
ATOM	248	OG1			26.121	50.077	26.983	1.00 3.18	A	0
			THR A		25.103	51.745	25.615	1.00 3.49	A	С
MOTA	249	CG2	_					1.00 3.72		C
ATOM	250	С	THR A		27.989	52.378	24.709			
ATOM	251	0	THR A	562	27.654	52.826	23.614	1.00 4.20		0
ATOM	252	N	LEU A	563	28.842	53.009	25.510	1.00 3.26	A	N
	253	CA	LEU A		29.415	54.273	25.112	1.00 2.19	A	С
ATOM					30.422	54.757	26.158	1.00 0.00		C
MOTA	254	CB	LEU A							Č
ATOM	255	CG	LEU A	563	29.771	55.561	27.297	1.00 0.00		
ATOM	256	CD1	LEU A	. 563	30.765	55.820	28.414	1.00 0.00		C
ATOM	257	CD2	LEU A	563	29.243	56.887	26.753	1.00 0.00	A	С
	258	C	LEU A		30.064	54.065	23.759	1.00 2.77	A	C
ATOM						54.418	22.734	1.00 1.04		0
ATOM	259	0	LEU A		29.491					N
ATOM	260	N	ASN A	564	31.245	53.466	23.749	1.00 2.98		
ATOM	261	CA	ASN A	564	31.952	53.210	22.503	1.00 2.64		С
ATOM	262	CB	ASN A		32.941	52.055	22.728	1.00 0.09	A	С
	263	CG	ASN A		33.722	51.690	21.481	1.00 1.80		С
ATOM						_	-	1.00 2.98		0
MOTA	264	OD1			33.412	50.706	20.808			N
ATOM	265	ND2	ASN A	564	34.741	52.485	21.163	1.00 1.77		
ATOM	266	С	ASN A	564	30.972	52.880	21.369	1.00 2.80		C
ATOM	267	Õ	ASN A		31.149	53.287	20.223	1.00 0.93	A	0
					29.921	52.148	21.712	1.00 4.69		N
ATOM	268	N	MET A							ĉ
MOTA	269	CA	MET A		28.930	51.738	20.730			
ATOM	270	CB	MET A	565	27.854	50.870	21.396	1.00 6.83		C
ATOM	271	CG	MET A		27.098	49.953	20.441	1.00 8.00		С
ATOM	272	SD	MET A		28.139	48.642	19.708	1.00 8.84	A	S
						49.503	18.290	1.00 6.39		C
ATOM	273	CE	MET A		28.850					č
ATOM	274	C	MET A		28.294	52.967	20.126	1.00 8.23		
ATOM	275	0	MET A	565	28.102	53.050	18.918	1.00 8.56		0
ATOM	276	N:	LEU A		*27.979	53.924	20.993	1.00 3,8.11	A	N .
		CA	LEU A		27.341	55.177	20.603	1.00 6.27		C
ATOM	277					55.908	21.852	1.00 4.16		Č
MOTA	278	CB	LEU A		26.825					č
ATOM	279	CG	LEU A		25.742	56.981	21.694	1.00 2.52		
MOTA	280	CD1	LEU A	566	24.564	56.423	20.931	1.00 1.38		C
ATOM	281	CD2	LEU A		25.292	57.461	23.060	1.00 1.84	A	С
			LEU A		28.332	56.048	19.873	1.00 5.12		С
ATOM	282	C								Ö
ATOM	283	0	LEU A		27.963	57.004	19.224	1.00 5.30		
ATOM	284	N	GLY A	567	29.603	55.707	19.981	1.00 3.12		N
ATOM	285	CA	GLY A		30.613	56.502	19.319	1.00 1.91	A	С
			GLY A		30.390	56.590	17.833	1.00 0.39		С
ATOM	286	С	дыт А	100	20.220	50.550			•	_

			57.549	17.348	1.00	0.00	A	0
ATOM	287 O GLY A 56					0.00	A	N
MOTA	288 N GLY A 568		J	_,,,		0.00	A	C
MOTA	289 CA GLY A 568		* • • • • •	15.153		0.00	A	C
ATOM	290 C GLY A 56		• • • •	13.975		0.00	A	0
MOTA	291 O GLY A 56		•••	16.002		0.00	A	N
ATOM	292 N ARG A 56		• • • • •			1.55	A	С
ATOM	293 CA ARG A 56	26.996	••	15.535		2.82	A	С
ATOM	294 CB ARG A 56	25.951		16.253		3.01	A	Ċ
ATOM	295 CG ARG A 56	24.496	•	15.800	1.00	4.65	A	Č
ATOM	296 CD ARG A 56	23.617	• • • • •	16.640	1.00	4.87	A	N
ATOM	297 NE ARG A 56		••-	16.880	1.00		A	Ċ
	298 CZ ARG A 56	- 4	• • •	17.992	1.00	3.85	A	И
MOTA	299 NH1 ARG A 56			18.950	1.00	4.04		N
ATOM	300 NH2 ARG A 56		~ • • • • • •	18.157	1.00	3.24	A	Č
ATOM	301 C ARG A 56		57.671	15.807	1.00	1.55	A	0
ATOM	302 O ARG A 56		58.349	15.053	1.00	1.41	A	N
ATOM	303 N GLN A 57	27.389	58.165	16.889	1.00	1.31	A	C
ATOM	304 CA GLN A 57		59.570	17.233	1.00	2.14	A	
ATOM	305 CB GLN A 57		59.821	18.659	1.00	4.40	A	C
MOTA	300		59.652	19.758	1.00	5.78	A	C
ATOM	300 00		60.189	21.124	1.00	7.26	A	C
ATOM	30, 02	•	61.368	21.273	1.00	7.79	A	0
ATOM		·	59.322	22.125	1.00	6.81	A	N
MOTA			60.283	16.234	1.00	3.00	A	C
MOTA			61.482	16.024	1.00	5.91	A	0 .
ATOM			59.539	15.617	1.00	4.20	A	N
MOTA			60.091	14.613	1.00	5.32	A	С
MOTA	313 CA VAL A 57	_	59.196	14.450	1.00	5.65	A	С
MOTA	J1. 02		59.431	13.100	1.00	5.90	A	С
MOTA	315 CG1 VAL A 57	-	59.497	15.565	1.00	6.42	A	C C
MOTA	316 CG2 VAL A 57		60.199	13.259	1.00	5.55	A	
ATOM	317 C VAL A 57		61.259	12.882	1.00	4.21	A	0
ATOM	318 O VAL A 57	_	59.090	12.534	1.00	4.66	A	N
MOTA	319 N ILE A 57		59.045	11.230	1.00	2.63	A	C
ATOM	320 CA ILE A 5		57.576	10.864	1.00	1.46	A	С
ATOM	321 CB ILE A 5		56.612	11.317	1.00	0.95	A	C
MOTA	322 CG2 ILE A 5		57.177	11.535	1.00	2.22	A	C
MOTA	323 CG1 ILE A 5		57.476	10.684	1.00	3.33	A	C
MOTA	324 CD1 ILE A 5		59.942	11.195	1.00	1.14	A	C
MOTA	325 C ILE A 5			10.186	1.00	1.64	A	0
ATOM	326 O ILE A 5		60.575	12.309	1.00	0.00	A	N
ATOM	327 N ALA A 5		59.997	12.402	1.00	0.00	A	Ç
MOTA	328 CA ALA A 5		60.799	13.706	1.00	0.00	A	С
ATOM	329 CB ALA A 5		60.553	12.297	1.00	0.35	A	С
ATOM	330 C ALA A 5		62.246	12.257	1.00	1.60	A	0
ATOM	331 O ALA A 5		63.053		1.00	2.50	A	N
ATOM	332 N ALA A 5		62.562	12.376 12.301	1.00	2.87	A	C
ATOM	333 CA ALA A 5		63.932	-	1.00	2.23	A	С
ATOM	334 CB ALA A 5		64.172	13.365 10.920	1.00	2.36	A	С
MOTA	335 C ALA A 5		64.213	10.320	1.00	2.71	A	0
MOTA	336 O ALA A 5		65.154		1.00	1.01	A	N
ATOM	337 N VAL A 5		63.400	10.479	1.00	1.65	A	С
ATOM	338 CA VAL A 5		63.588	9.163	1.00	1.37	A	С
ATOM	339 CB VAL A 5	75 30.230	62.284	8.626	1.00	0.00	A	C
MOTA	340 CG1 VAL A 5	75 31.347	62.565	7.654	1.00	0.00	A	С
MOTA	341 CG2 VAL A 5	75 30.668	61.416	9.768	1.00	3.13	A	Ċ
MOTA	342 C VAL A 5	75 28.633		8.152		3.49	A	0
ATOM	343 O VAL A 5	75 28.944		7.310	1.00 1.00	4.74	A	N
ATOM	344 N LYS A 5	76 27.407	63.572	8.230		5.56	A	C
ATOM	345 CA LYS A 5	76 26.349		7.310	1.00 1.00	6.56	A	Ċ
ATOM	346 CB LYS A 5	76 25.142		7.411	1.00	7.51	A	Č
ATOM	347 CG LYS A 5	76 24.059		6.383		8.62	A	С
ATOM	348 CD LYS A 5	76 22.681	63.455	7.042	1.00	8.32	A	Č
MOTA	349 CE LYS A 5	76 22.487		7.718	1.00	7.57	A	Ŋ
MOTA	350 NZ LYS A S	76 22.640				4.91	A	Ċ
ATOM	351 C LYS A 5	76 25.909		7.659		4.32	Ā	ŏ
ATOM	352 O LYS A 5	76 25.764		6.781	1.00		A	N
ATOM	353 N TRP A 5	77 25.675				3.15	A	·C
ATOM	354 CA TRP'A		66.940		1.00	1.03	A	C
ATOM	355 CB TRP A							Č
ATOM	356 CG TRP A	77 25.096					A n'	Ċ
	357 CD2 TRP A		69.115		_		A'	C
ATOM	358 CE2 TRP A		70.369				A	C
MOTA	359 CE3 TRP A						A	C
MOTA				11.604			A	
MOTA				12.134			A	N
MOTA			_				A	C
MOTA				12.629			A	C
MOTA							A	C
MOTA	364 CH2 TRP A						A	C
MOTA	365 C TRP A						A	0
ATOM	366 O TRP A		_				A	N
ATOM	367 N ALA A	21.31						

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ATOM	368	CA	ALA A	578	28.727	68.313	8.734	1.00	2.23		A	C
ATOM	369	CB	ALA A	A 578	29.97 7	67.648	9.240	1.00	1.79		A	C
ATOM	370	С	ALA A	A 578	28.840	68.594	7.239	1.00	3.61		A	С
ATOM	371	Ö	ALA A		29.738	69.312	6.811	1.00	3.99		A	0
ATOM	372	N	LYS A		27.934	68.021	6.450	1.00	4.48		A	N
	373	CA	LYS A		27.903	68.241	4.997	1.00	5.13		A	C
ATOM			LYS ?		27.792	66.911	4.237	1.00	4.34		A	C
MOTA	374	CB			29.108	66.170	4.071	1.00	5.17		A	C
MOTA	375	CG	LYS A					1.00	4.91		A	Č
ATOM	376	CD	LYS A		28.916	64.825	3.407				A	č
MOTA	377	CE	LYS A		28.297	63.816	4.374	1.00	5.38			
ATOM	378	NZ	LYS A	A 579	29.213	63.431	5.492	1.00	5.21		A	N
ATOM	379	С	LYS A	A 579	26.666	69.087	4.726	1.00	5.05		A	C
ATOM	380	. 0	LYS A	3 579	26.479	69.636	3.641	1.00	5.48		A	0
ATOM	381	N	ALA A	A 580	25.829	69.176	5.752	1.00	4.48		A	N
ATOM	382	CA	ALA A		24.603	69.934	5.704	1.00	4.02		A	С
	383	CB	ALA A		23.587	69.300	6.624	1.00	4.94		A	C
ATOM			ALA A		24.874	71.379	6.119	1.00	3.86		A	C
ATOM	384	C			23.955	72.194	6.168	1.00	5.24		A	0
ATOM	385	0	ALA A			71.685	6.438	1.00	2.99		A	N
MOTA	386.			¥ 581	26.131			1.00	2.14		A	C
ATOM	387	CA	ILE A		26.525	73.038	6.812				A	č
ATOM	388	CB	ILE A		27.938	73.089	7.424	1.00	0.00			Č
MOTA	389	CG2		A 581	28.110	74.365	8.194	1.00	0.00		A	
ATOM	390	CG1	ILE A	A 581	28.184	71.899	8.339	1.00	0.00		A	C
ATOM	391	CD1	ILE A	A 581	27.228	71.800	9.482	1.00	0.00		A	C
ATOM	392	С	ILE A	A 581	26.617	73.745	5.465	1.00	3.53		A	C
ATOM	393	Õ	ILE A		27.157	73.172	4.509	1.00	3.17		A	0
MOTA	394	Ň	PRO A		26.070	74.975	5.348	1.00	4.06		A	N
	395	CD		3 582	25.086	75.627	6.231	1.00	3.29		A	C
ATOM				3 582 3 582	26.149	75.682	4.066	1.00	3.07		A	С
ATOM	396	CA			25.485	77.015	4.382	1.00	2.41		A	С
ATOM	397	CB	PRO A				5.293	1.00	1.91		A	Ċ
MOTA	398	CG	PRO P		24.388	76.599			3.62		A	Č
MOTA	399	С	PRO A		27.589	75.838	3.562	1.00			Ā	ŏ
MOTA	400	0	PRO A		28.492	76.218	4.309	1.00	1.88			
ATOM	401	N	GLY A	A 583	27.797	75.514	2.293	1.00	3.11		A	N
ATOM	402	CA	GLY A	A 583	29.122	75.643	1.718	1.00	4.87		A	C
ATOM	403	С	GLY A	A 583	30.148	74.579	2.069	1.00	5.62		A	C
ATOM	404	0	GLY A	¥ 583	31.265	74.616	1.550	1.00	5.44		A	0
ATOM	405	N	PHE A		29.798	73.634	2.938	1.00	6.57		A	N
ATOM	406	CA		3 584	30.748	72.588	3.296	1.00	7.01		A	С
ATOM	407	CB		A 584	30.152	71.629	4.331	1.00	5.98		Α	C
	408	CG		A 584	31.185	70.805	5.061	1.00	4.23		A	С
MOTA				A 584	31.961	71.369	6.073	1.00	3.98		A	С
MOTA	409	CD1		A 584	31.408	69.475	4.718	1.00	4.05		A	C
MOTA	410	CD2				70.616	6.731	1.00	3.51		A	C
ATOM	411	CE1	PHE A		32.948		5.371	1.00	3.22		A	Ç
MOTA	412	CE2	PHE A		32.389	68.727			2.80		A	č
ATOM	413	CZ	PHE A		33.159	69.299	6.376	1.00				Č
MOTA	414	C	PHE I	A 584	31.108	71.826	2.024	1.00	7.29		A	
ATOM	415	0	PHE A	A 584	32.280	71.729	1.669	1.00	8.14		A	0
ATOM	416	N	ARG A	A 585	30.105	71.292	1.332	1.00	7.32		A	N
ATOM	417	CA	ARG A	A 585	30.368	70.557	0.103	1.00	7.84		A	C
ATOM	418	CB	ARG A	A 585	29.073	70.246	-0.654	1.00	10.41		A	C
ATOM	419	CG	ARG A		29.308	69.747	-2.093	1.00	11.98		A	С
ATOM	420	CD		¥ 585	28.025	69.290	-2.781	1.00	12.55		Α	С
ATOM	421	NE	ARG A		28.190	69.164	-4.233	1.00	13.19		A	N
	422	CZ	ARG A		27.188	68.961	-5.090	1.00	13.05		Α	C
MOTA		NH1	ARG I		25.938	68.854	-4.649	1.00	12.44		A	N
ATOM	423		ARG A		27.431	68.891	-6.391	1.00	11.86		A	N
ATOM	424	NH2				71.384	-0.792	1.00	7.33		A	С
ATOM	425	C	ARG A		31.267 32.071	70.853	-0.732	1.00	7.62		A	Ö
ATOM	426	0	ARG A						6.78		A	N
ATOM	427	N	ASN A		31.126	72.696	-0.702	1.00			A	C
ATOM	428	CA	ASN A		31.923	73.586	-1.524	1.00	6.33			C
ATOM	429	CB	ASN A		31.558	75.044	-1.232	1.00	6.55		A	
ATOM	430	CG	ASN A	A 586	30.123	75.374	-1.615	1.00	6.08		A	C
ATOM	431		ASN A		29.176	74.808	-1.072	1.00	6.71		A	0
ATOM	432	ND2			29.961	76.292	-2.557	1.00	6.45		A	N
ATOM	433	C	ASN A		33.401	73.343	-1.280	1.00	5.95		A	C
ATOM	434	Ö	ASN A		34.225	73.507	-2.183	1.00	6.08		A	0
ATOM	435	N	LEU A		33.730	72.932	-0.061	1.00	4.83		A	N
ATOM	436	CA	LEU A		35.114	72.664	0.291	1.00	4.49		A	С
	436	CB	LEU A		35.320	72.728	1.810	1.00	1.95		A	С
ATOM .			LEU 'A		35.096	74.062	2.526	1.00	0.00	٠.	A	С
ATOM .	438	CG			35.711	74.002	3.912	1.00	0.00		A	C
ATOM	439		LEU A			75.183	1.720	1.00	0.00		A	Ċ
ATOM	440		LEU A		35.711			1.00	6.08		A	č
ATOM	441	С	LEU A		35.594	71.314	-0.227				A	Ö
MOTA	442	0	LEU A		34.973	70.278	0.014	1.00	5.03			N
ATOM	443	N	HIS ?		36.706	71.363	-0.954	1.00	7.97		A	
MOTA	444	CA	HIS A	A 588	37.375	70.200	-1.528	1.00	7.66		A	C
ATOM	445	CB	HIS 7	588	38.853	70.556	-1.721	1.00	8.59		A	C
ATOM	446	CG	HIS A		39.549	69.792	-2.803	1.00			A	C
ATOM	447		HIS A		39.101	68.861	-3.675		11.30		A	C
ATOM	448		HIS A		40.887	69.971	-3.086	1.00	11.32		A	N
ATIM												

33

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ATOM	449	CE1 F	HIS A 5	88	41.234	69.183	-4.086	1.00	11.35 11.77	A A	C N
ATOM	450		HIS A 5		40.169	68.498	-4.461 -0.514	1.00	6.17	A	C
ATOM			HIS A 5		37.228 37.194	69.062 69.313	0.696	1.00	7.07	A	0
MOTA			HIS A 5		37.137	67.822	-0.987	1.00	3.08	A	N
ATOM			LEU A 5		36.980	66.710	-0.065	1.00	1.54	A	C
ATOM ATOM			LEU A 5		36.664	65.423	-0.824	1.00	1.60	A A	C
MOTA			-	89	35.194	65.169	-1.189	1.00	1.11	A	Č
ATOM		CD1	LEU A 5		34.796	65.925	-2.457 -1.404	1.00	0.60	A	Č
ATOM			LEU A 5		35.005 38.206	63.680 66.516	0.829	1.00	1.42	A	C
ATOM		_	LEU A 5 LEU A 5	89 00	38.200	66.040	1.967	1.00	1.35	A	0
ATOM		_	LEU A 5 ASP A 5		39.384	66.876	0.328	1.00	1.96	A	N
MOTA MOTA			ASP A 5		40.576	66.741	1.145	1.00	3.02	A	C C
ATOM			ASP A 5		41.808	67.220	0.403	1.00	2.72 4.98	A A	Ċ
MOTA			ASP A 5		42.280	66.228	-0.619 -1.588	1.00 1.00	5.51	A	Ö
MOTA			ASP A 5		41.535	65.958 65.704	-0.446	1.00	7.12	A	0
MOTA			ASP A 5 ASP A 5		40.331	67.622	2.338	1.00	3.28	A	C
MOTA MOTA		•	ASP A 5		40.728	67.297	3.451	1.00	1.93	A	0
ATOM		_	ASP A 5		39.646	68.735	2.087	1.00	4.09	A A	N C
ATOM		CA	ASP A 5		39.320	69.702	3.122	1.00	3.32 2.03	A	č
MOTA			ASP A 5		38.713	70.968 71.602	2.515 1.456	1.00	2.28	A	C
ATOM	•		ASP A 5		39.606 40.845	71.444	1.533	1.00	1.79	A	0
ATOM			ASP A 5		39.067	72.275	0.547	1.00	2.67	A	0
ATOM ATOM			ASP A 5		38.339	69.085	4.081	1.00	3.14	A	C
ATOM			ASP A 5		38.677	68.816	5.231	1.00	3.40 2.76	A A	O N
ATOM		N	GLN A 5	92	37.126	68.858	3.589 4.372	1.00	3.71	A	Ĉ
MOTA	478		GLN A 5	92	36.045	68.257 67.668	3.435	1.00	4.09	A	С
ATOM	479		GLN A 5		34.986 34.359	68.665	2.464	1.00	2.57	A	С
ATOM	480 481		GLN A 5		33.220	68.065	1.659	1.00	1.45	A	C
MOTA MOTA	482		GLN A 5		32.171	67.712	2.202	1.00	0.57	A A	N O
MOTA	483	NE2	GLN A S	592	33.425	67.947	0.355	1.00 1.00	1.06 4.37	A	Ċ
MOTA	484	С	GLN A		36.547	67.154 67.202	5.306 6.525	1.00	4.05	A	Ö
MOTA	485	0	GLN A		36.344 37.197	66.152	4.723	1.00	4.47	A	N
ATOM	486	N	MET A S		37.727	65.062	5.514	1.00	3.67	A	C
MOTA MOTA	487 488	CA CB	MET A		38.413	64.042	4.614	1.00	3.57	A	Ç
MOTA	489	CG	MET A		37.455	63.290	3.693	1.00	4.07 4.62	A A	C S
ATOM	490	SD	MET A		36.208	62.250	4.528 3.146	1.00	2.82	A	č
ATOM	491	CE	MET A		35.748 38.704	61.193 65.605	6.539	1.00	2.45	A	С
ATOM	492	C	MET A		38.622	65.265	7.706	1.00	2.80	A	0
ATOM ATOM	493 494	N O	THR A		39.620	66.462	6.108	1.00		A	N C
ATOM	495	CA	THR A		40.599	67.043	7.026	1.00		A A	C
ATOM	496	CB	THR A		41.516	68.101	6.314 5.402	1.00		A	Ö
MOTA	497	OG1	THR A		42.405 42.347	67.439 68.887	7.338	1.00		A	С
MOTA	498 499	CG2 C	THR A		39.910	67.725	8.202	1.00	0.49	A	C
ATOM ATOM	500	Ö	THR A		40.265	67.509	9.361	1.00		A	o N
ATOM	501	N	LÉU A		38.915	68.544	7.899	1.00		A A	Č
ATOM	502	CA	LEU A		38.219	69.265	8.941 8.364	1.00		A	Č
ATOM	503	CB	LEU A		37.563 38.591	70.499 71.557	8.015	1.00		A	C
ATOM	504	CG	LEU A		37.952	72.555	7.083	1.00		A	C
MOTA ATOM	505 506	CD1 CD2		595	39.107	72.210	9.282	1.00		A	C C
ATOM	507	C	LEU A		37.203	68.453	9.683	1.00		A A	Ö
ATOM	508	0		595	36.651	68.917	10.677 9.210	1.00		A	Ŋ
ATOM	509	N	LEU A	596	36.938 35.983	67.245 66.417	9.913	1.00		A	С
MOTA	510	CA	LEU A		35.085			1.00	0.00	A	C
MOTA	511 512	CB CG	LEU A		33.615	66.017	9.167	1.00		A	C
MOTA ATOM	513		LEU A		32.773			1.00		A A	C
MOTA	514		LEU A	596	33.172				_	Ā	č
ATOM	515	С	LEU A		36.690					A	Ö
MOTA	516	0	LEU A		36.050 38.009					A	N
ATOM	517	N	GLN A GLN A	597	38.846				0.00	A	C
ATOM	518 519	CA CB	GLN A		40.095		10 រហ៊ី58	1.00	0.00		C
ATOM: ATOM	520	CG	GLN A		39.904	63.337	9.374		_	A A	C
ATOM	521	CD	GLN A	597	41.230					A	Ö
ATOM	522	OE1			41.330					A	N
MOTA	523	NE2			42.242 39.336					A	С
ATOM	524 525	C	GLN A		39.773			1.00	0.81	A	0
ATOM	525 526	O N	TYR A		39.278	66.590	12.593	1.0		A	N
MOTA MOTA	527	CA	TYR A		39.717	67.508				A A	C
ATOM	528	CB	TYR A	598	40.278					A	Č
MOTA	529	CG	TYR A	598	41.656	68.679	14.4/0	, 1.0			

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PCT/EP03/04900 WO 03/090666

ATOM 530 CD1 TYR A 598	C
ATOM 531 CE1 TYR A 598 43.963 68.039 12.717 1.00 0.69 A ATOM 532 CD2 TYR A 598 41.920 69.077 11.182 1.00 0.00 A ATOM 533 CE2 TYR A 598 43.186 68.961 10.647 1.00 0.91 A ATOM 534 CZ TYR A 598 44.203 68.439 11.420 1.00 0.91 A ATOM 535 OH TYR A 598 45.458 68.305 10.887 1.00 2.35 A ATOM 536 C TYR A 598 38.606 67.896 14.595 1.00 1.97 A ATOM 537 O TYR A 598 38.842 68.101 15.772 1.00 2.93 A ATOM 538 N SER A 599 37.393 68.011 14.080 1.00 2.26 A ATOM 539 CA SER A 599 36.270 68.400 14.910 1.00 4.13 A ATOM 540 CB SER A 599 35.386 69.379 14.132 1.00 6.03 A ATOM 541 OG SER A 599 35.386 69.379 14.132 1.00 6.03 A ATOM 542 C SER A 599 35.217 68.979 12.783 1.00 5.27 A ATOM 543 O SER A 599 34.331 67.537 16.013 1.00 8.08 A ATOM 543 O SER A 599 34.331 67.537 16.013 1.00 8.08 A ATOM 544 N TRP A 600 35.845 66.024 15.400 1.00 6.06 A ATOM 545 CA TRP A 600 34.967 65.006 15.936 1.00 6.37 A ATOM 546 CB TRP A 600 35.376 63.577 15.487 1.00 9.43 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85	C C C C C C C C C C C C C C C C C C C
ATOM 531 CE1 TIR A 598 ATOM 532 CD2 TYR A 598 ATOM 533 CE2 TYR A 598 ATOM 533 CE2 TYR A 598 ATOM 534 CZ TYR A 598 ATOM 535 OH TYR A 598 ATOM 536 C TYR A 598 ATOM 537 O TYR A 598 ATOM 538 N SER A 599 ATOM 538 N SER A 599 ATOM 540 CB SER A 599 ATOM 540 CB SER A 599 ATOM 541 OG SER A 599 ATOM 542 C SER A 599 ATOM 543 O SER A 599 ATOM 544 N TRP A 600 ATOM 545 CA TRP A 600 ATOM 546 CB TRP A 600 ATOM 546 CB TRP A 600 ATOM 547 CG TRP A 600 ATOM 548 CD2 TRP A 600	C C O C O N C C O
ATOM 532 CD2 TYR A 598	C O C O N C C O
ATOM 533 CE2 TYR A 598 ATOM 534 CZ TYR A 598 ATOM 535 OH TYR A 598 ATOM 536 C TYR A 598 ATOM 537 O TYR A 598 ATOM 538 N SER A 599 ATOM 539 CA SER A 599 ATOM 540 CB SER A 599 ATOM 540 CB SER A 599 ATOM 541 OG SER A 599 ATOM 542 C SER A 599 ATOM 542 C SER A 599 ATOM 543 O SER A 599 ATOM 544 N TRP A 600 ATOM 545 CA TRP A 600 ATOM 546 CB TRP A 600 ATOM 546 CB TRP A 600 ATOM 547 CG TRP A 600 ATOM 548 CD2 TRP A 600	0 0 N C C
ATOM 535 OH TYR A 598 ATOM 536 C TYR A 598 ATOM 537 O TYR A 598 ATOM 538 N SER A 599 ATOM 539 CA SER A 599 ATOM 540 CB SER A 599 ATOM 541 OG SER A 599 ATOM 542 C SER A 599 ATOM 542 C SER A 599 ATOM 543 O SER A 599 ATOM 544 N TRP A 600 ATOM 545 CA TRP A 600 ATOM 546 CB TRP A 600 ATOM 546 CB TRP A 600 ATOM 547 CG TRP A 600 ATOM 547 CG TRP A 600 ATOM 548 CD2 TRP A 600	С О С С
ATOM 536 C TYR A 598 38.606 67.896 14.595 1.00 1.97 A ATOM 537 O TYR A 598 38.842 68.101 15.772 1.00 2.93 A ATOM 538 N SER A 599 37.393 68.011 14.080 1.00 2.26 A ATOM 539 CA SER A 599 36.270 68.400 14.910 1.00 4.13 A ATOM 540 CB SER A 599 35.386 69.379 14.132 1.00 6.03 A ATOM 541 OG SER A 599 35.217 68.979 12.783 1.00 5.27 A ATOM 542 C SER A 599 35.407 67.274 15.478 1.00 5.52 A ATOM 543 O SER A 599 34.331 67.537 16.013 1.00 8.08 A ATOM 544 N TRP A 600 35.845 66.024 15.400 1.00 6.06 A ATOM 545 CA TRP A 600 34.967 65.006 15.936 1.00 6.37 A ATOM 546 CB TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85	0 C C
ATOM 536 C TYR A 598 38.842 68.101 15.772 1.00 2.93 A 38.840 537 O TYR A 598 38.842 68.101 14.080 1.00 2.26 A 540 538 N SER A 599 36.270 68.400 14.910 1.00 4.13 A 540 CB SER A 599 35.386 69.379 14.132 1.00 6.03 A 541 OG SER A 599 35.217 68.979 12.783 1.00 5.27 A 540 542 C SER A 599 35.407 67.274 15.478 1.00 5.52 A 540 543 O SER A 599 34.331 67.537 16.013 1.00 8.08 A 540 543 O SER A 599 34.331 67.537 16.013 1.00 8.08 A 540 544 N TRP A 600 35.845 66.024 15.400 1.00 6.06 A 540 545 CA TRP A 600 34.967 65.006 15.936 1.00 6.37 A 540 546 CB TRP A 600 36.557 62.934 16.122 1.00 9.43 A 540 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A 540 548 CD2 TRP A 600 36.557 62.934 16.122 1.00 9.07 A 540 548 CD2 TRP A 600 36.555 61.867 17.086 1.00 10.85	N C O
ATOM 537 O TIR A 536 ATOM 538 N SER A 599 ATOM 539 CA SER A 599 ATOM 540 CB SER A 599 ATOM 541 OG SER A 599 ATOM 542 C SER A 599 ATOM 543 O SER A 599 ATOM 544 N TRP A 600 ATOM 545 CA TRP A 600 ATOM 546 CB TRP A 600 ATOM 546 CB TRP A 600 ATOM 547 CG TRP A 600 ATOM 548 CD2 TRP A 600	c c o
ATOM 538 N SER A 599 36.270 68.400 14.910 1.00 4.13 A ATOM 539 CA SER A 599 35.386 69.379 14.132 1.00 6.03 A ATOM 541 OG SER A 599 35.217 68.979 12.783 1.00 5.27 A ATOM 542 C SER A 599 35.407 67.274 15.478 1.00 5.52 A ATOM 543 O SER A 599 34.331 67.537 16.013 1.00 8.08 A ATOM 544 N TRP A 600 35.845 66.024 15.400 1.00 6.06 A ATOM 545 CA TRP A 600 34.967 65.006 15.936 1.00 6.37 A ATOM 546 CB TRP A 600 35.376 63.577 15.487 1.00 9.43 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.555 61.867 17.086 1.00 10.85 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85	C
ATOM 539 CA SER A 599 ATOM 540 CB SER A 599 ATOM 541 OG SER A 599 ATOM 542 C SER A 599 ATOM 543 O SER A 599 ATOM 544 N TRP A 600 ATOM 545 CA TRP A 600 ATOM 546 CB TRP A 600 ATOM 547 CG TRP A 600 ATOM 548 CD2 TRP A 600	0
ATOM 541 OG SER A 599 35.366 09.373 1.00 5.27 A ATOM 541 OG SER A 599 35.407 67.274 15.478 1.00 5.52 A ATOM 543 O SER A 599 34.331 67.537 16.013 1.00 8.08 A ATOM 544 N TRP A 600 35.845 66.024 15.400 1.00 6.06 A ATOM 545 CA TRP A 600 34.967 65.006 15.936 1.00 6.37 A ATOM 546 CB TRP A 600 35.376 63.577 15.487 1.00 9.43 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85 A	_
ATOM 541 OG SER A 599 ATOM 542 C SER A 599 ATOM 543 O SER A 599 ATOM 544 N TRP A 600 ATOM 545 CA TRP A 600 ATOM 546 CB TRP A 600 ATOM 547 CG TRP A 600 ATOM 548 CD2 TRP A 600	_
ATOM 542 C SER A 599 35.407 67.274 15.00 8.08 A ATOM 543 O SER A 599 34.331 67.537 16.013 1.00 8.08 A ATOM 544 N TRP A 600 35.845 66.024 15.400 1.00 6.06 A ATOM 545 CA TRP A 600 34.967 65.006 15.936 1.00 6.37 A ATOM 546 CB TRP A 600 35.376 63.577 15.487 1.00 9.43 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.00	
ATOM 543 O SER A 599 34.331 67.337 15.400 1.00 6.06 A ATOM 544 N TRP A 600 35.845 66.024 15.400 1.00 6.06 A ATOM 545 CA TRP A 600 34.967 65.006 15.936 1.00 6.37 A ATOM 546 CB TRP A 600 35.376 63.577 15.487 1.00 9.43 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.00	
ATOM 544 N TRP A 600 35.845 60.024 15.487 1.00 6.37 A ATOM 545 CA TRP A 600 34.967 65.006 15.936 1.00 6.37 A ATOM 546 CB TRP A 600 35.376 63.577 15.487 1.00 9.43 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.00 A	
ATOM 545 CA TRP A 600 34.967 63.506 13.336 A 1.00 9.43 A ATOM 546 CB TRP A 600 35.376 63.577 15.487 1.00 9.43 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.00 A	. C
ATOM 546 CB TRP A 600 35.376 63.377 13.100 9.07 A ATOM 547 CG TRP A 600 36.557 62.934 16.122 1.00 9.07 A ATOM 548 CD2 TRP A 600 36.535 61.867 17.086 1.00 10.85 A	
ATOM 547 CG TRP A 600 36.537 62.534 17.086 1.00 10.85 A	
ATION 548 CD2 TRP A 600 36.535 61.607 17.401 1 00 10 00 A	C
A1043	C
ATOM 549 CE2 TRP A 600 37.880 61.333 17.115 1 00 9.96 A	C
ATOM 550 CE3 TRP A 600 35.510 61.143 17.724 1.00 9.72 A	C
ATOM 551 CD1 TRP A 600 37.872 63.217 15.660 1.00 10.68 A	N
ATOM 552 NEI TRP A 600 38.674 62.394 10.000 1.00 8.99 A	C
ATOM 553 CZ2 TRP A 600 38.226 60.337 10.320 1.00 9.07 A	-
7EOM 554 CZ3 TRP A 600 35.858 60.145 10.023 100 0 32	
ATOM 555 CH2 TRP A 600 37.207 59.867 10.520 1.00 5.65 A	
ATOM 556 C TRP A 600 34.796 65.139 17.440 1.00 6.26 A	_
NTOM 557 O TRP A 600 33.757 65.610 17.301 1.00 2.98	
750W 558 N MET A 601 35.796 64.776 10.237 1.00 0.39	
ATOM 559 CA MET A 601 35.644 64.693 13.070 1 00 0 50	_
ATTOM 560 CB MET A 601 36.966 64.542 20.372 1.00 0.00	
AUTOM 561 CG MET A 601 36.920 64.495 21.900 1.00 0.00	A S
ATOM 562 SD MET A 601 35.592 63.524 22.601 1.00 0.00	A C
ATOM 563 CE MET A 601 36.310 62.772 24.011 1.00 0.00	A C
ATOM 564 C MET A 601 35.165 66.301 20.041 1.00 0.00	A O
AMON 565 O MET A 601 34.652 66.516 21.123 1.00 0.00	A N
700M 566 N PHE A 602 35.307 67.267 19.144 1.00 0.00	A C
NTOM 567 CA PHE A 602 34.847 68.625 19.457 1.00 0.51	A C
ATOM 568 CB PHE A 602 35.403 69.654 18.460 1.00 1.00	A C
7TOM 569 CG PHE A 602 36.871 69.930 10.033 1.00 0.00	A C
ATOM 570 CD1 PHE A 602 37.704 70.039 17.530 1.00 0.57	A C
ATOM 571 CD2 PHE A 602 37.426 70.032 19.902 1.00 0.37	A C
NTOM 572 CE1 PHE A 602 39.066 70.234 17.869 1.00 1.00	A C
NTOM 573 CE2 PHE A 602 38.791 70.229 20.069 1.00 1.00	A C
NOW 574 C7 PHE A 602 39.612 70.327 18.962 1.00 0.00	A C
NUOM 575 C PHE A 602 33.330 68.658 19.437 1.00 1.00	A O
ATOM 576 O PHE A 602 32.707 69.036 20.427 1.00 1.00	A N
NUM 577 N LEU A 603 32.739 68.277 18.307 1.00 2.03	A C
70M 578 CA LEU A 603 31.288 68.227 18.207 1.00 3.02	A C
7 TOM 579 CB LEU A 603 30.865 67.720 16.832 1.00 5.77	A C
700M 580 CG LEU A 603 31.033 68.729 15.701 1.00 3.01	A C
ATOM 581 CD1 LEU A 603 30.857 68.044 14.362 1.00 5.20	A C
70M 582 CD2 LEU A 603 30.026 69.841 15.889 1.00 3.59	A C
AUCM 583 C LEU A 603 30.816 67.258 19.299 1.00 2.55	A O
NEOM 584 O LEU A 603 30.085 67.643 20.211 1.00 4.00	A N
NUM 585 N MET A 604 31.256 66.006 19.210 1.00 0.00	A C
AUTOM 586 CA MET A 604 30.914 64.992 20.133 1.00 0.00	A C
NTOM 587 CB MET A 604 31.958 63.884 20.163 1.00 0.00	A C
ATOM 588 CG MET A 604 32.042 63.176 18.833 1.00 0.00	A S
ATOM 589 SD MET A 604 30.526 62.285 18.507 1.00 0.00	A C
ATOM 590 CE MET A 604 31.103 60.590 10.449 1.00 0.00	A C
ATOM 591 C MET A 604 30.873 65.619 21.380 1.00 0.00	A O
ATOM 592 O MET A 604 29.800 65.868 22.122 1.00 0.00	A N
ATOM 593 N ALA A 605 32.052 65.888 22.136 1.00 0.00	A C
ATOM 594 CA ALA A 605 32.198 66.487 23.467 1.00 0.00	A C
ATOM 595 CB ALA A 605 33.655 66.856 23.717 1.00 0.00	A C
ATOM 596 C ALA A 605 31.323 67.705 23.704 1.00 0.00	A O
ATOM 597 O ALA A 605 . 30.943 67.991 24.833 1.00 0.00	A N
NOW 598 N PHE A 606 31.005 68.435 22.646 1.00 0.00	A C
TOW 599 CA PHE A 606 30.172 69.606 22.614 1.00 0.00	A C
ATOM 600 CB PHE A 606 30.349 70.556 21:032 1.00 0.00	A C
PROM 601 CG PHE A 606 29.873 71.962 21.908 1.00 0.00	A C
ATOM 602 CD1 PHE A 606 30.380 72.677 22.976 1.00 0.00	A C
28.907 72.553 21.100 1.00 0.00	A C
	A C
ATOM 603 CD2 FRE A 606 29.937 73.932 23.241 1.00 0.00	A C
ATOM 603 CD2 PHE A 606 29.937 73.932 23.241 1.00 0.00 ATOM 604 CE1 PHE A 606 29.937 73.810 21.369 1.00 0.00 28.462 73.810 21.369 1.00 0.00	
ATOM 603 CD2 FRE A 606 ATOM 604 CE1 PHE A 606 ATOM 605 CE2 PHE A 606 29.937 73.932 23.241 1.00 0.00 28.462 73.810 21.369 1.00 0.00 28.462 73.810 22.436 1.00 0.00 28.973 74.504 22.436 1.00 0.00	A C
ATOM 603 CD2 FRE A 606 ATOM 604 CE1 PHE A 606 ATOM 605 CE2 PHE A 606 ATOM 606 CZ PHE A 606 ATOM 607 C PHE A 606 29.937 73.932 23.241 1.00 0.00 28.462 73.810 21.369 1.00 0.00 28.973 74.504 22.436 1.00 0.00 28.973 74.504 22.436 1.00 0.00 28.973 74.504 22.930 1.00 0.00	A C A O
ATOM 603 CD2 PHE A 606 ATOM 604 CE1 PHE A 606 ATOM 605 CE2 PHE A 606 ATOM 606 CZ PHE A 606 ATOM 607 C PHE A 606	A O
ATOM 603 CD2 FRE A 606 ATOM 604 CE1 PHE A 606 ATOM 605 CE2 PHE A 606 ATOM 606 CZ PHE A 606 ATOM 607 C PHE A 606 ATOM 608 O PHE A 606	A O A N
ATOM 603 CD2 PHE A 606 ATOM 604 CE1 PHE A 606 ATOM 605 CE2 PHE A 606 ATOM 606 CZ PHE A 606 ATOM 607 C PHE A 606 ATOM 607 C PHE A 606 ATOM 608 O PHE A 606 29.937 73.932 23.241 1.00 0.00 28.462 73.810 21.369 1.00 0.00 28.973 74.504 22.436 1.00 0.00 28.729 69.172 22.930 1.00 0.00 28.729 69.381 23.955 1.00 0.00	A O

43

	e	an.	ALA A	607	26.797	66.848	20.888	1.00	0.14	A	С
ATOM	611	CB	ALA A		26.392	67.671	23.189	1.00	1.53	A	С
MOTA	612	C			25.392	68.178	23.695	1.00	2.78	A	0
ATOM	613	0	ALA A			66.763	23.804	1,00	1.69	A	N
ATOM	614	N	LEU A		27.126	66.322	25.139	1.00	2.07	A	C
MOTA	615	CA	LEU A		26.786	65.386	25.663	1.00	2.30	A	C
ATOM	616	CB	LEU A		27.871	-	26.947	1.00	1.86	A	С
MOTA	617	ÇG	LEU A		27.537	64.643		1.00	2.95	A	Ç
ATOM	618	CD1	LEU A	4 608	26.366	63.743	26.694		2.57	A	č
ATOM	619	CD2	LEU A	4 608	28.720	63.839	27.395	1.00	2.18	A	č
ATOM	620	C	LEU F	4 608	26.652	67.530	26.064	1.00		A	ŏ
ATOM	621	0	LEU F		25.592	67.756	26.644	1.00	1.10		N
ATOM	622	N	GLY A		27.734	68.301	26.185	1.00	2.31	A	
ATOM	623	CA	GLY F		27.745	69.475	27.041	1.00	0.69	A	C
ATOM	624	C	GLY A		26.392	70.154	27.105	1.00	0.00	A	C
	625	Ö	GLY A		25.890	70.475	28.183	1.00	0.06	A	0
MOTA	626	N		4 610	25.798	70.361	25.939	1.00	0.00	A	N
ATOM	627	CA		4 610	24.495	70.993	25.845	1.00	0.00	A	C
ATOM				4 610	24.262	71.459	24.404	1.00	0.79	A	C
ATOM	628	CB		A 610	22.866	71.864	24.090	1.00	1.59	A	С
ATOM	629	CG			22.338	73.191	24.100	1.00	0.93	A	C
ATOM	630	CD2		A 610	20.958	73.095	23.814	1.00	1.43	A	C
ATOM	631	CE2		A 610	22.893	74.454	24.331	1.00	1.29	A	С
ATOM	632	CE3		A 610		71.038	23.799	1.00	2.70	A	C
MOTA	633	CD1		A 610	21.821	71.770	23.632	1.00	2.17	A	N
MOTA	634	NE1		A 610	20.668	74.211	23.757	1.00	1.17	A	С
ATOM	635	CZ2		A 610	20.125	75.564	24.274	1.00	1.18	A	С
ATOM	636	CZ3		A 610	22.062		23.989	1.00	0.51	A	C
ATOM	637	CH2		A 610	20.693	75.432	26.299	1.00	0.00	A	Ċ
MOTA	638	C		A 610	23.404	70.025	27.270	1.00	0.00	A	Ö
ATOM	639	0		A 610	22.701	70.306		1.00	0.00	A	N
ATOM	640	N		A 611	23.277	68.886	25.614	1.00	0.00	A	Ċ
ATOM	641	CA		A 611	22.265	67.887	25.968	1.00	0.00	A	č
MOTA	642	CB		A 611	22.646	66.493	25.467	1.00	0.00	A	Č
ATOM	643	CG		A 611	22.941	66.368	23.989		0.00	A	č
ATOM	644	CD	ARG .	A 611	23.344	64.937	23.646	1.00	0.00	A	N
ATOM	645	NE	ARG	A 611	24.021	64.858	22.360	1.00		A	Ċ
ATOM	646	CZ		A 611	23.522	65.330	21.220	1.00	0.00	A	Ŋ
ATOM	647	NH1		A 611	22.338	65.917	21.204	1.00	0.00		N
ATOM	648	NH2		A 611	24.208	65.218	20.090	1.00	0.00	A	C
ATOM	649	C		A 611	22.093	67.807	27.475	1.00	0.00	A	
MOTA	650	Ö		A 611	20.992	67.966	27.980	1.00	0.00	A	0
	651	N		A 612	23.188	67.560	28.190	1.00	0.67	A	N
ATOM	652	CA		A 612	23.138	67.452	29.648	1.00	1.96	A	C
MOTA	653	CB		A 612	24.209	66.498	30.177	1.00	2.19	A	C
ATOM	654	OG		A 612	25.486	67.100	30.200	1.00	4.26	A	0
MOTA	655	C		A 612	23.317	68.799	30.313	1.00	2.61	A	C
MOTA	656	Ö		A 612	24.264	69.015	31.058	1.00	1.54	A	0
ATOM		N		A 613	22.384	69.695	30.026	1.00	3.78	A	N
ATOM	657	CA	MAD TIY	A 613	22.359	71.045	30.569	1.00	4.65	A	C
ATOM	658	CB	MAD TIV	A 613	23.526	71.869	30.020	1.00	5.98	A	C
MOTA	659	CG	MAD	A 613	23.181	73.317	29.797	1.00	5.30	A	С
ATOM	660			A 613	23.098	74.212	30.858	1.00	6.21	A	С
ATOM	661	CD1		A 613	22.688	75.528	30.658	1.00	5.08	A	С
ATOM	662	CEI		A 613	22.852	73.771	28.528	1.00	6.15	A	С
MOTA	663	CD2		A 613	22.441	75.076	28.315	1.00	6.69	A	С
ATOM	664	CE2		A 613	22.358	75.948	29.381	1.00	5.38	A	C
MOTA	665	CZ	TIK	x 613	21.922	77.223	29.150	1.00	4.66	A	0
MOTA	666	OH	TIK	A 613 A 613	21.037	71.613	30.098	1.00	5.06	A	С
ATOM	667	C			20.662	72.731	30.429	1.00	5.38	A	0
ATOM	668	0	TYR	-	20.343	70.812	29.302	1.00	5.49	A	N
ATOM	669	N	ARG		19.044	71.171	28.772	1.00	5.93	A	С
ATOM	670	CA	ARG		19.095	71.260	27.239	1.00	5.63	A	C
MOTA	671	CB		A 614	17.795	71.735	26.580	1.00	5.65	A	C
MOTA	672	CG		A 614	17.793	71.735	25.069		5.28	A	С
MOTA	673	CD		A 614	16.656			1.00	4.84	A	N
MOTA	674	NE		A 614	16.636	72.543	23.136		3.40	A	C
MOTA	675	CZ		A 614	16.497	72.584		_	3.79	A	N
ATOM	676	NH.		A 614		72.784	22.650		1.72	A	N
MOTA	677	NH	2 ARG	A 614	15.289				6.00	. A	С
MOTA	678	G	ARG	A 614	18.068				7.53	A	0
ATOM	679	0		A 614	16.976				5.01	A	N
ATOM	680	N	GLN	A 615	18.484	68.817			3.4.72	A	C
CA ATOM	681	CA		A 615	17.636				6.29	A	Č
ATOM	682	CB	GLN	A 615	17.659				10.07	A	Č
ATOM	683	CG	GLN	A 615	16.278				11.83	A	č
ATOM	684	CD		A 615	15.322				11.71	A	ŏ
ATOM	685	OE:		A 615	14.090				13.29	A	N
ATOM	686	NE:	2 GLN	A 615	15.888			_		A	C
ATOM	687	C	GLN	A 615	17.935					A	ő
ATOM	688	0	GLN	A 615	17.879			_		Ā	Ŋ
ATOM	689	N	SER	A 616	18.241					A	Č
MOTA	690	CA	SER	A 616	18.525					A	Č
ATOM	691	CB		A 616	19.489	65.997	32.991	1.00	J.00	A	V
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38

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ATOM	692	OG	SER A	616	18.798	64.806	32.648	1.00	7.78	A	O C
ATOM	693	C	SER A		19.077	68.217	34.077	1.00	6.99 6.38	A A	Ö
ATOM	694	0	SER A		19.346	67.879	35.230 33.619	1.00	6.91	A	N
ATOM	695	N	SER A		19.236 19.741	69.457 70.559	34.438	1.00	8.11	A	C
ATOM	696	CA	SER A	61 <i>1</i> 617	19.741	70.391	35.910	1.00	9.65	A	С
ATOM	697	CB	SER A		19.977	71.382	36.725	1.00	10.84	A	0
ATOM	698 699	OG C		617	21.235	70.721	34.354	1.00	8.99	A	C
ATOM ATOM	700	ŏ	SER A		21.802	71.581	35.021	1.00	8.84	A A	O N
ATOM	701	N	ALA A		21.872	69.887	33.545		10.45 10.61	Ā	C
ATOM	702	CA	ALA A		23.319	69.937	33.359 33.401		10.70	A	Č
MOTA	703	CB	ALA A		23.811	71.398 69.076	34.305	1.00	9.70	A	С
ATOM	704	C	ALA A		24.166 24.885	68.190	33.842		10.08	A	0
MOTA	705	0	ALA A ASN A		24.075	69.328	35.614	1.00	7.87	A	N
ATOM	706 707	n Ca	ASN A		24.875	68.607	36.619	1.00	6.76	A	C
ATOM ATOM	707	CB		619	24.307	68.845	38.034	1.00	6.42	A	C
ATOM	709	CG		619	25.406	69.118	39.071	1.00	7.28	A A	0
ATOM	710	OD1		619	26.301	69.936	38.843	1.00 1.00	7.43 6.62	Ā	N
ATOM	711	ND2	ASN A		25.333	68.441 67.106	40.211 36.366	1.00	5.90	A	C
MOTA	712	C	ASN A		25.059 25.996	66.503	36.897	1.00	3.16	A	0
ATOM	713	0		619 620	24.172	66.526	35.550	1.00	6.25	A	N
MOTA	714 715	N CA		620	24.225	65.106	35.182	1.00	4.94	A	C
ATOM ATOM	715	CB		620	22.834	64.487	35.210	1.00	2.22	A	C
ATOM	717	CG	LEU A		21.854	64.977	36.278	1.00	3.21	A A	č
ATOM	718	CD1		620	20.589	64.099	36.217	1.00	2.57 2.39	A	č
ATOM	719	CD2		620	22.506	64.947	37.668 33.770	1.00	4.69	A	Č
ATOM	720	C	LEU A		24.793	64.971 65.887	32.953	1.00	4.22	A	0
MOTA	721	0	LEU A		24.665 25.408	63.827	33.480	1.00	3.78	A	N
MOTA	722	N	LEU A	621 621	26.008	63.599	32.169	1.00	2.60	A	С
ATOM	723	CA	LEU A		27.413	63.004	32.338	1.00	2.51	A	C
ATOM	724 725	CB CG	LEU A		28.602	63.973	32.298	1.00	1.78	A	C
MOTA MOTA	726	CD1		621	29.910	63.237	32.527	1.00	1.53	A A	C C
ATOM	727	CD2		621	28.645	64.650	30.943	1.00	2.41 1.34	A	c
ATOM	728	C	LEU A		25.173	62.714	31.241 30.975	1.00	0.85	A	Ö
ATOM	729	0	LEU A	621	25.534	61.586 63.256	30.729	1.00	0.00	A	N
ATOM	730	Ŋ		622	24.076 23.174	62.520	29.850	1.00	0.00	A	С
ATOM	731	CA	CYS A	622 622	21.804	63.206	29.825	1.00	0.00	A	C
ATOM	732 733	CB SG	CYS A		21.773	64.684	28.818	1.00	0.00	A	S
ATOM ATOM	734	C	CYS A	622	23.665	62.347	28.409	1.00	0.00	A	C
ATOM	735	Ö	CYS A		23.670	63.292	27.626	1.00	0.00	A A	N
ATOM	736	N	PHE A	623	24.037	61.122	28.055	1.00	0.00	A	Ċ
MOTA	737	CA	PHE A		24.520	60.806 59.584	26.718 26.801	1.00	0.00	A	C
MOTA	738	CB	PHE A		25.426 26.602	59.787	27.689	1.00	0.00	A	C
MOTA	739	CG	PHE A		27.811	60.212	27.172	1.00	0.00	A	С
MOTA	740 741	CD1			26.481	59.640	29.060	1.00	0.00	A	C
MOTA MOTA	742	CE1			28.880	60.493	28.020	1.00	0.00	A	C
ATOM	743	CE2	_		27.551	59.924	29.914	.1.00	0.00	A A	Č
ATOM	744	CZ	PHE A	623	28.744	60.350	29.394 25.772	1.00	0.00	A	Č
ATOM	745	С	PHE A		23.362 23.532	60.547 60.476	24.561	1.00		A	0
ATOM	746	0	PHE A		23.332	60.415	26.349	1.00		A	N
MOTA	747	N	ALA A ALA A		20.963	60.140	25.595	1.00	2.14	A	C
MOTA	748 749	CA CB	ALA A		21.155	58.897	24.737	1.00		A	C
ATOM ATOM	750	C	ALA A		19.824	59.920	26.578	1.00		A	C O
ATOM	751	Ö	ALA A		20.048	59.846	27.777	1.00		A A	N
ATOM	752	N	PRO A		18.585	59.813	26.085	1.00 1.00		A	Č
MOTA	753	CD	PRO A		18.098	60.027 59.601	24.715 26.993	1.00		A	С
MOTA	754	CA	PRO A		17.463 16.259		26.055	1.00		A	С
MOTA	755	CB	PRO A		16.712		24.961	1.00	3.27	A	С
MOTA	756	CG C	PRO A	625	17.557			1.00		A	C
ATOM	757 758	Ö	PRO A		17.099		28.877	1.00	_	A	0
MOTA MOTA	759	N	ASP A	626	18.157	57.277		1.00		A A	N C
ATOM	760		ASP A	626	18.300			1.00	_	A	č
MOTA	7,61		ASP A	626	18.345			1.00		A	č
ATOM	762	CG	ASP A		19.428			_		A	Ö
MOTA	763	OD:	1 ASP A	626	19.095 20.610			1.00		A	0
ATOM	764		2 ASP A	626	19.533					A	C
ATOM	765		ASP A		19.833			1.00	4.10	A	
ATOM	766 767		LEU A	627	20.241		28.684	1.00		A	
ATOM ATOM	768			627	21.462	56.839	29.467			A	_
ATOM	769		_		22.579	56.336				A A	
ATOM	770		LEU A	627	23.979						
MOTA	771	CD	1 LEU A		23.914					A	
MOTA	772	CD	2 LEU A	4 627	24.777	55.227	20.340	1.00		_ -	

177

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ATOM	773	C	LEU A	627	21.849	58.173	30.090	1.00	1.52	A A	С 0
ATOM	774		LEU A		21.968 22.044	59.179 58.189	29.406 31.396	1.00	1.10	A	N
ATOM	775	_	ILE A		22.404	59.430	32.055	1.00	0.29	A	С
ATOM ATOM	776 777	_	ILE A		21.163	60.202	32.540	1.00	0.57	A A	C C
MOTA	778	CG2	ILE A	628	21.445	61.678	32.528 31.676	1.00	0.00	A	č
ATOM	779		ILE A		19.952 19.284	59.884 58.556	32.018	1.00	1.08	A	C
MOTA	780		ILE A		23.253	59.141	33.279	1.00	0.46	A	C
ATOM ATOM	781 782		ILE A		22.722	59.017	34.380	1.00	1.45 0.11	A A	O N
ATOM	783	N	ILE A	629	24.562	59.026 58.747	33.118 34.289	1.00	2.20	A	C
MOTA	784	CA	ILE A		25.362 26.852	58.775	33.964	1.00	3.14	. A	C
ATOM ATOM	785 786		ILE A		27.682	58.511	35.231	1.00	1.51	A A	C C
ATOM	787		ILE A	629	27.146	57.703 57.493	32.916 32.664	1.00	2.96 3.69	A	č
ATOM	788	CD1	ILE A		28.611 25.032	59.762	35.374	1.00	3.38	A	С
ATOM ATOM	789 790	С 0	ILE A		25.378	60.930	35.264	1.00	4.88	A	O N
ATOM	791	N	ASN A	630	24.337	59.295	36.408 37.551	1.00	4.33	A A	C
MOTA	792	CA	ASN A		23.908 23.217	60.108 59.200	38.574	1.00	3.81	A	С
MOTA	793 794	CB CG	ASN A		22.363	58.119	37.915	1.00	4.39	A	C
MOTA MOTA	795	OD1	ASN A		22.838	57.371	37.052	1.00	3.09 4.13	A A	O N
ATOM	796	ND2	ASN A		21.098 25.080	58.028 60.827	38.325 38.212	1.00	4.98	A	C
ATOM	797	C O	ASN A		25.912	61.415	37.539	1.00	4.16	A	0
ATOM ATOM	798 799	N	GLU A		25.137	60.798	39.537	1.00	6.52 8.03	A A	N C
ATOM	800	CA	GLU A		26.249 25.801	61.431 62.635	40.236 41.079	1.00	9.15	A	C
ATOM	801 802	CB CG	GLU A		27.006	63.424	41.649	1.00	10.50	A	C
ATOM ATOM	803	CD	GLU A		26.635	64.510	42.660		11.16 11.47	A A	C O
ATOM	804	OE1			26.047 26.950	64.183 65.692	43.719 42.388	1.00	10.90	A	0
ATOM	805 806	OE2 C	GLU A	4 631 · 4 631	26.979	60.446	41.135	1.00	8.01	A	C
MOTA MOTA	807	Ö		631	28.205	60.376	41.108	1.00	8.95 7.43	A A	O N
ATOM	808	N	-	632	26.239 26.882	59.693 58.724	41.943 42.816	1.00	7.50	A	C
MOTA	809	CA CB	GLN A		25.907	58.234	43.899	1.00	7.13	A	C
MOTA MOTA	810 811	CG		A 632	25.603	59.299	44.951	1.00	5.53 4.58	A A	C C
ATOM	812	CD	GLN F		25.111	58.729 58.945	46.271 47.324	1.00	2.81	A	ŏ
MOTA	813	OE1 NE2			25.721 23.998	58.001	46.223	1.00	3.30	A	N
MOTA MOTA	814 815	C	GLN A		27.427	57.554	41.987	1.00	8.43 8.94	A A	C
ATOM	816	0	GLN A	A 632	27.807	56.508 57.764	42.521 40.676	1.00	8.83	A	N
ATOM	817	N CA		A 633 A 633	27.476 27.974	56.780	39.727	1.00	9.35	A	C
ATOM ATOM	818 819	CB		A 633	26.881	56.470	38.703	1.00 1.00	9.45 10.20	A A	C C
ATOM	820	CG		A 633	27.223 27.180	55.430 54.000	37.632 38.178	1.00		A	C
ATOM	821 822	CD NE		A 633 A 633	26.059	53.756	39.100	1.00	12.60	A	N
ATOM ATOM	B23	CZ	ARG A	A 633	24.771	53.709	38.762	1.00	13.07 14.00	A A	C N
MOTA	824	NH1		A 633	24.388 23.861	53.883 53.494	37,503 39.699	1.00		A	N
MOTA	825 826	NH2		A 633 A 633	29:198		39.019	1.00	9.65	A	C
ATOM ATOM	827	Ö	ARG	A 633	29.780			1.00		A A	N O
ATOM	828	N		A 634	29.579 30.711		39.415 38.831	1.00		A	C
MOTA	829 830	CA CB		A 634 A 634	30.390		38.771	1.00		A	C
MOTA MOTA	831	CG	MET .	A 634	28.977			1.00	_	A A	S
MOTA	832		MET		28.439 28.956	-			14.68	A	С
ATOM	83 3 834		MET	A 634 A 634	32.006		39.614	1.00		A	C O
MOTA MOTA	835		MET	A 634	32.723					A A	N
MOTA	836	N	THR	A 635	32.294 33.503			_		A	С
MOTA	837 838		THR	A 635 A 635	33.231		42.249	1.00		A	C
MOTA MOTA	839		THR	A 635	32.469	56.231				A A	C C
ATOM	840	CG	2 THR	A 635	32:472					A	Ċ
ATOM	841		THR	A 635 A 635	33.934 35.116		40.292	1.00	5.31	A	0
ATOM.	. · 842		LEU	A 636	32.928	55.439	39.932	1.00			N C
ATOM	844	CA	LEU	A 636	33.123					_	С
ATOM	845			A 636 A 636	31.783 31.739	_	39.904	1.00	4.04	A	С
MOTA MOTA	846 847			A 636	30.455	51.281	39.487	1.00		_	C
ATOM	848	3 CD	2 LEU	A 636	32.911						Ç
MOTA	849) C	LEU	A 636 A 636	33.796 34.474				8.27	A	0
ATOM ATOM	850 850			A 637	33.620	55.220	37.290	1.00			N C
ATOM	852		PRO	A 637	33.003	3 56.548				_	C
ATOM	853		PRO	A 637	34.30	9 55.155	, 30.003	. 1.0		•-	

MOTA	854 CB PRO A 637	33.925 56.478 35.341 1.00 9.77 A C	
MOTA	855 CG PRO A 637	33.784 57.385 36.478 1.00 8.43 A C	
ATOM	856 C PRO A 637	35.803 55.029 36.246 1.00 12.24 A C	
ATOM	857 O PRO A 637	36.318 55.515 37.252 1.00 14.00 A O	
ATOM			
		36.498 54.345 35.346 1.00 12.76 A N	
MOTA	859 CA ASP A 638	37.936 54.211 35.494 1.00 12.16 A C	
ATOM	860 CB ASP A 638	38.520 53.282 34.426 1.00 11.16 A C	
ATOM	861 CG ASP A 638	39.918 52.810 34.773 1.00 9.06 A C	
ATOM	862 OD1 ASP A 638	40.630 53.555 35.483 1.00 6.47 A O	
MOTA	863 OD2 ASP A 638	40.303 51.701 34.331 1.00 7.55 A O	
ATOM	864 C ASP A 638	38.450 55.634 35.282 1.00 13.37 A C	
ATOM	865 O ASP A 638	39.659 55.901 35.336 1.00 16.44 A O	
ATOM	866 N MET A 639	37.513 56.542 35.017 1.00 12.95 A N	
ATOM	867 CA MET A 639	37.862 57.931 34.821 1.00 12.79 A C	
MOTA	868 CB MET A 639	38.131 58.234 33.334 1.00 13.62 A C	
ATOM	869 CG MET A 639	36.930 58.328 32.412 1.00 9.98 A C	
ATOM		37.433 59.097 30.859 1.00 7.83 A S	
ATOM	871 CE MET A 639	37.900 57.616 29.885 1.00 5.47 A C	
ATOM	872 C MET A 639	36.863 58.931 35.396 1.00 13.49 A C	
ATOM	873 O MET A 639	36.098 59.583 34.672 1.00 12.33 A O	
ATOM	874 N TYR A 640	36.857 59.014 36.721 1.00 13.18 A N	
ATOM	875 CA TYR A 640	36.033 59.986 37.409 1.00 10.90 A C	
ATOM	876 CB TYR A 640	35.784 59.567 38.845 1.00 7.90 A C	
MOTA	877 CG TYR A 640	35.960 60.714 39.789 1.00 8.65 A C	
ATOM	878 CD1 TYR A 640	34.971 61.692 39.924 1.00 9.47 A C	
ATOM	879 CE1 TYR A 640	35.174 62.813 40.733 1.00 10.07 A C	
atom	880 CD2 TYR A 640	37.157 60.881 40.491 1.00 9.70 A C	
ATOM	881 CE2 TYR A 640	37.366 61.996 41.301 1.00 9.93 A C	
ATOM	882 CZ TYR A 640	36.373 62.953 41.414 1.00 9.95 A C	
ATOM	883 OH TYR A 640		
		36.585 64.051 42.204 1.00 11.59 A O	
ATOM	884 C TYR A 640	37.041 61.127 37.359 1.00 9.98 A C	
ATOM	885 O TYR A 640		
ATOM	886 N ASP A 641	38.297 60.727 37.216 1.00 9.69 A N	
ATOM	887 CA ASP A 641	39.396 61.658 37.095 1.00 10.40 A C	
MOTA	888 CB ASP A 641	40.723 60.942 37.375 1.00 9.65 A C	
ATOM	889 CG ASP A 641	40.655 59.435 37.107 1.00 10.13 A C	
ATOM	890 OD1 ASP A 641		
	- · · · - ·		
ATOM	891 OD2 ASP A 641		
ATOM	892 C ASP A 641		
MOTA	893 O ASP A 641		
ATOM	894 N GLNA 642	38.423 61.681 34.874 1.00 11.26 A N	
ATOM	895 CA GLN A 642	38.198 62.116 33.487 1.00 9.57 A C	
ATOM	896 CB GLN A 642		
ATOM	897 CG GLN A 642		
		· · · · · · · · · · · · · · · · · · ·	
ATOM	898 CD GLN A 642		
ATOM	899 OE1 GLN A 642		
ATOM	900 NE2 GLN A 642	42.359 62.164 32.361 1.00 2.90 A N	
ATOM	901 C GLN A 642	36.699 61.984 33.168 1.00 9.54 A C	
ATOM	902 O GLN A 642		
ATOM	903 N CYS A 643		
ATOM	904 CA CYS A 643		
ATOM		*******	
ATOM	906 SG CYS A 643		
ATOM	907 C CYS A 643		
ATOM	908 O CYS A 643	32.857 64.078 34.420 1.00 8.12 A O	
ATOM	909 N LYS A 644	35.020 64.531 34.878 1.00 7.68 A N	
ATOM	910 CA LYS A 644	34.783 65.900 35.288 1.00 7.75 A C	
ATOM	911 CB LYS A 644		
ATOM	912 CG LYS A 644	***	
ATOM	913 CD LYS A 644		
ATOM	914 CE LYS A 644	38.090 66.006 38.350 1.00 13.22 A C	
ATOM	915 NZ LYS A 644	39.002 66.614 39.355 1.00 13.21 A N	
MOTA	916 C LYS A 644	34.844 66.832 34.088 1.00 6.70 A C	
MOTA	917 O LYS A 644	33.841 67.431 33.729 1.00 9.00 A O	
ATOM	918 N HIS A 645	36.008 66.947 33.460 1.00 4.79 A N	
ATOM	919 CA HIS A 645	36.161 67.823 32.304 1.00 3.28 A C	
ATOM	920 CB HIS A 645	37.353 67.381 31.453 1.00 3.42 A C	
ATOM	921 CG HIS A 645		
ATOM	922 CD2 HIS A 645	38.885 67.319 33.549 1.00 3.18 A C	
ATOM	923 ND1 HIS A 645	39.773 66.705 31648 1.00 3.00 A N	•
ATOM	924 CE1 HIS A 645		··
ATOM	925 NE2 HIS A 645	40.189 66.936 33.739 1.00 3.50 A N	
ATOM	926 C HIS A 645	34.905 67.782 31.437 1.00 1.97 A C	
ATOM	927 O HIS A 645	34.296 68.804 31.119 1.00 2.17 A O	
ATOM	928 N MET A 646		
ATOM	929 CA MET A 646	33.357 66.382 30.219 1.00 0.00 A C	
ATOM	930 CB MET A 646	33.197 64.892 29.935 1.00 0.00 A C	
MOTA	931 CG MET A 646	32.578 64.591 28.602 1.00 0.00 A C	
MOTA	932 SD MET A 646	32.432 62.827 28.395 1.00 0.00 A S	
MOTA	933 CE MET A 646	31.179 62.470 29.594 1.00 0.00 A C	
ATOM	934 C MET A 646	32.082 66.967 30.829 1.00 0.00 A C	

3 mov4	935 0	M	ET A	646	:	31.122	67.242	30.112	1.00	0.20	A	0	
MOTA	935 N			647	_	32.080	67.146	32.150	1.00	0.00	A	N	
ATOM ATOM	937 C			647		30.947	67.716	·32.883	1.00	0.00	A	C	
ATOM	938 C	_		647		30.724	66.954	34.182	1.00	0.00	A	C	
ATOM	939 C	_		647		29.507	67.301	35.042	1.00	0.00	A	c	
ATOM	• • • •	_		647	:	28.290	66.531	34.557	1.00	0.00	A A	C	
ATOM			EU A			29.782	66.927	36.485	1.00	0.00	A	Č	
ATOM	942 C			647		31.273	69.173	33.208	1.00	0.26	A	o	
MOTA	943 0			647		30,403	69.955	33.588	1.00	3.00	A	N	
MOTA	944 N		YR A			32.550	69.514	33.069	1.00	4.25	A	C	
MOTA	945 C		YR A			33.049	70.862	33.307 33.449	1.00	3.00	A	C	
MOTA	946 C		YR A			34.578	70.865 70.777	34.849	1.00	1.95	A	C	
MOTA	_	-	YR A			35.161	70.777	35.052	1.00	2.30	A	C	:
MOTA	-		YR A			36.522 37.082	70.954	36.320	1.00	2.83	A	C	
MOTA			YR A			34.368	70.509	35.964	1.00	2.39	A	C	
ATOM			YR A			34.925	70.465	37.252	1.00	2.33	A	C	
ATOM		_	YR A			36.283	70.693	37.411	1.00	2.60	A	C	
MOTA		_	YR A	_		36.858	70.686	38.653	1.00	2.81	A	C	
MOTA	954 C		YR A			32.688	71.679	32.070	1.00	4.62	A	C	
ATOM ATOM	955 C		YR A			33.209	72.782	31.868	1.00	6.78	A	0	
ATOM	956 N		AL A			31.825	71.111	31.228	1.00	2.67	A) N	
ATOM			AL A			31.391	71.776	30.004	1.00	1.52	A A		C
ATOM			A LAN			31.263	70.794	28.834	1.00	1.81 1.28	A	Č	C
ATOM			/AL A			30.428	71.395	27.735	1.00 1.00	1.93	A	Č	C
ATOM	960 0	:G2 \	AL A			32.640	70.451	28.300	1.00	0.68	A	_	Č
ATOM	961 0		/AL A			30.043	72.380	30.252 29.864	1.00	0.38	A		0
MOTA	962 0		AL A			29.781	73.501 71.624	30.917	1.00	2.29	A		N
MOTA	963		SER A			29.187 27.848	72.088	31.221	1.00	3.67	A	(C
ATOM	-		SER A			27.012	70.923	31.740	1.00	4.42	A	. (C
MOTA	_		SER A			26.741	70.022	30.686	1.00	5.99	A		0
ATOM			SER A			27.783	73.259	32.197	1.00	3.84	A		C
ATOM	•		SER A	650		26.908	74.098	32.089	1.00	4.82	A		0
MOTA	• • -		SER A			28.692	73.323	33.156	1.00	2.84	A		N
MOTA			SER A			28.668	74.433	34.094	1.00	3.19	A		C
ATOM ATOM	-		SER A			29.642	74.182	35.242	1.00	4.35	<i>2</i> A		C
ATOM			SER A			28.993	73.482	36.291	1.00	3.26	2A 2A		0 C
MOTA	-		SER A			29.003	75.749	33.393	1.00	3.07	2		Ö
MOTA			SER A			28.325	76.767	33.573	1.00	5.77 1.49	2		N
ATOM	975	N (GLU A			30.049	75.729	32.585	1.00 1.00	0.00	7		C
ATOM	976		GLU A			30.439	76.919	31.857 31.041	1.00	0.00	7		C
MOTA			GLU A			31.703	76.621 77.821	30.826	1.00	0.00	7		С
MOTA			GLU A			32.576 32.591	78.723	32.041	1.00	0.00	F		С
ATOM			GLU A			32.884	78.217	33.141	1.00	0.00	Z		0
ATOM			GLU A			32.301	79.937	31.898	1.00	0.00	I	_	0
MOTA			GLU A	652		29.266	77.333	30.952	1.00	0.00	Į		C
ATOM		_		652		28.910	78.498	30.864	1.00	0.06	7		0
ATOM		_	_	653		28.660	76.348	30.305	1.00	0.00	2		N
MOTA MOTA				653		27.529	76.540	29.407	1.00	0.00			C C
ATOM		-		653		27.299	75.242	28.643	1.00	0.00			C
ATOM	• -		LEU A	4 653		26.638	75.142	27.271	1.00	0.45 0.91			Č
ATOM		CD1		4 653		25.323	75.883	27.243	1.00 1.00	0.08			č
ATOM	989			4 653		27.588			1.00	0.00			C
ATOM	990	_		A 653		26.274				0.00			0
MOTA		-		4 653		25.213			1.00	0.13		-	N
MOTA				A 654		26.401 25.285			1.00	0.00			C
ATOM				A 654 A 654		24.956				0.00		A.	C
ATOM	994			A 654		23.821		34.238	1.00	0.00	7	A	C
ATOM	• • •	CD2		A 654		23.612			1.00	0.00		A	С
ATOM				A 654		22.713		33.902	1.00	0.00		A	И
ATOM				A 654		21.870		34.917		0.00		A	C
ATOM ATOM				A 654		22.392	76.260			0.10		A	N N
ATOM	1000	C		A 654		25.681				0.00		A	0
ATOM	1001	ō		A 654		24.913						A	И
MOTA	1002	N		A 655		26.914				0.00		A A	C
MOTA	1003	CA		A 655		27.425				1.15 3.32		A A	C
MOTA	1004	CB		A 655		28.951							.·Č
ATOM	1005	CG		A 655	.•	29.789				_		A	Č
ATOM	1006	CD		A 655		31.144				10.33		A	N
MOTA	1007	NE		A 655		30.974				11.33		A	C
MOTA	1008	CZ		A 655		31.894				11.72		A	N
MOTA	1009	NH1		A 655		33.067 31.637				11.16		A	N
MOTA	1010			A 655		27.029						A	C
ATOM	1011	C		A 655 A 655		26.644				0.31		A	0
ATOM	1012	O N		A 656		27.094						A	N
MOTA	1013 1014	N CA		A 656		26.723	81.909	30.606				A	C
MOTA	1014	CB		A 656		27.59			1.00	1.59		A	C
MOTA	TATA	OD											
-													

212

									1 00	0 00	7.	C
ATOM	1016	CG	LEU A	656		29.099	81.596	29.508	1.00	0.90	A	C
ATOM	1017	CD1	LEU A	656		29.738	81.869	28.177	1.00	1.20	A	С
ATOM	1018	CD2				29.676	82.521	30.547	1.00	1.50	A	С
						25.281	81.667	30.213	1.00	1.35	A	C
MOTA	1019	С		656						1.12	A	Ō
ATOM	1020	0	LEU A	656		24.749	82.365	29.359	1.00			
ATOM	1021	N	GLN A	657		24.652	80.669	30.825	1.00	0.96	A	N
ATOM	1022	CA		657		23.269	80.350	30.494	1.00	2.30	A	C
						22.313	81.220	31.322	1.00	4.65	A	C
ATOM	1023	СВ		657						9.19	A	C
ATOM	1024	CG	GLN A	657		22.455	81.041	32.836	1.00			
ATOM	1025	CD	GLN A	657		21.835	82.186	33.650	1.00	11.69	A	C
	1026	OE1	GLN A			22.004	82.263	34.878	1.00	13.17	A	0
ATOM							83.077	32.967	1.00	12.66	A	N
ATOM	1027	NE2				21.118					A	Ċ
ATOM	1028	С	GLN A	657		23.051	80.600	28.990	1.00	1.68		
ATOM	1029	0	GLN A	657		22.030	81.155	28.583	1.00	0.00	A	0
	1030	N	VAL A			24.036	80.191	28.184	1.00	1.79	A	N
ATOM							80.349	26.726	1.00	0.18	A	C
MOTA	1031	CA	VAL A			24.015					A	Č
ATOM	1032	CB	VAL A	658		25.066	79.453	26.021	1.00	0.00		
ATOM	1033	CG1	VAL A	658		24.974	79.652	24.515	1.00	0.00	A	С
ATOM	1034	CG2				26.465	79.775	26.518	1.00	0.00	A	C
			VAL A			22.672	79.984	26.150	1.00	0.00	A	С
ATOM	1035	C							1.00	0.00	A	0
ATOM	1036	0	VAL A			21.945	79.191	26.722				N
ATOM	1037	N	SER A	659		22.352	80.550	25.000	1.00	0.00	A	
ATOM	1038	CA	SER A	659		21.075	80.278	24.378	1.00	0.19	A	C
ATOM	1039	CB	SER A			20.477	81.572	23.827	1.00	0.00	A	C
						20.271	82.507	24.869	1.00	0.00	A	0
ATOM	1040	OG	SER A							2.56	A	Ċ
ATOM	1041	C	SER A	659		21.213	79.255	23.275	1.00			
ATOM	1042	0	SER A	659		22.321	79.008	22.785	1.00	2.52	A	0
ATOM	1043	N	TYR A			20.075	78.666	22.895	1.00	4.88	A	N
						20.004	77.644	21.841	1.00	5.35	A	C
MOTA	1044	CA	TYR A							4.05	A	Ċ
ATOM	1045	CB	TYR A	660		18.602	77.032	21.800	1.00			
MOTA	1046	CG	TYR A	660		18.432	75.932	20.786	1.00	0.56	A	С
ATOM	1047	CD1				19.028	74.696	20.964	1.00	0.60	A	С
		CE1				18.903	73.703	20.027	1.00	1.19	A	С
ATOM	1048						76.142	19.634	1.00	0.85	A	С
ATOM	1049	CD2				17.697						č
ATOM	1050	CE2	TYR A	660		17.567	75.151	18.692	1.00	2.08	A	
ATOM	1051	CZ	TYR A	660		18.176	73.938	18.895	1.00	1.32	A	С
ATOM	1052	ОН	TYR A			18.079	72.971	17.934	1.00	2.12	A	0
			TYR A			20.360	78.194	20.466	1.00	5.76	Α	С
ATOM	1053	C							1.00	6.61	A	0
ATOM	1054	0	TYR A			21.144	77.601	19.737				
ATOM	1055	N	GLU A	661		19.777	79.324	20.103	1.00	5.56	A	И
ATOM	1056	CA	GLU A	661		20.100	79.908	18.821	1.00	6.01	A	C
			GLU A			19.180	81.103	18.532	1.00	6.90	A	С
ATOM	1057	CB						18.831	1.00	7.00	A	С
ATOM	1058	CG	GLU A			17.671	80.830					Č
ATOM	1059	CD	GLU A	661		17.043	79.632	18.070	1.00	5.83	A	
MOTA	1060	OE1	GLU A	661		15.900	79.257	18.405	1.00	5.11	A	0
	1061	OE2				17.660	79.068	17.141	1.00	5.63	A	0
ATOM							80.311	18.866	1.00	6.34	A	С
ATOM	1062	С	GLU A			21.582	_					ō
ATOM	1063	0	GLU A	661		22.209	80.494	17.824	1.00	7.80	A	
ATOM	1064	N	GLU A	662		22.138	80.419	20.077	1.00	5.60	A	Ŋ
ATOM	1065	CA	GLU A	662		23.560	80.754	20.277	1.00	4.68	A	C
			GLU A			23.824	81.254	21.701	1.00	3.42	A	C
ATOM	1066	CB					82.709	21.962	1.00	3.57	A	C
ATOM	1067	CG	GLU A			23.486						Č
ATOM	1068	CD	GLU A	662		23.857	83.144	23.370	1.00	3.89	A	
ATOM	1069	OE1	GLU A	662		23.214	82.683	24.330	1.00	3.46	A	0
ATOM	1070	OE2	GLU A	662		24.801	83.942	23.516	1.00	3.60	Α	0
	1071	C	GLU A			24.433	79.522	20.064	1.00	3.86	Α	C
MOTA								19.525	1.00	2.57	A	0
MOTA	1072	0	GLU A			25.533	79.611				A	N
ATOM	1073	N	TYR A	663		23.911	78.381	20.516	1.00	2.92		
ATOM	1074	CA	TYR A	663		24.547	77.058	20.455	1.00	1.36	A	C
ATOM	1075	CB	TYR A	663		23.699	76.091	21.294	1.00	1.01	A	С
	1076	ÇĞ	TYR A			23.939	74.609	21.084	1.00	0.78	A	С
ATOM							74.009	21.500	1.00	0.95	A	С
ATOM	1077	CDl				25.119					_	č
ATOM	1078	CEl				25.319	72.641	21.351	1.00	1.16	A	
ATOM	1079	CD2	TYR A	663		22.963	73.801	20.508	1.00	0.00	A	С
ATOM	1080		TYR A			23.151	72.442	20.354	1.00	0.07	A	С
	1081	CZ	TYR A			24.330	71.864	20.777	1.00	1.11	A	С
MOTA							70.507	20.633	1.00	2.23	A	ō
MOTA	1082	OH	TYR A			24.523		-				
MOTA	1083	C	TYR A			24.744	76.499.		1.00	0.18	A	C
ATOM	1084	0	TYR A	663		25.817	76.057	18.686	1.00	1.22	A	0
ATOM	1085	N	LEU A			23.692	76.518	18.252	1.00	0.00	A	N
					_	23.769	75.996	16.907	1.00	0.00	A	
, ATOM	1086	CA	LEU A		· ·-						A	, C
MOTA	1087	CB	LEU A			22.412	76.141	16.194	1.00	0.00		
ATOM	1088	CG	LEU A	664		21.059	75.657	16.755	1.00	0.00	A	C
ATOM	1089	CD1				20.091	75.609	15.595	1.00	0.00	A	C
			LEU A			21.139	74.285	17.400	1.00	0.00	A	C
MOTA	1090							16.110			A	Č
MOTA	1091	С	LEU A			24.839	76.711		1.00	0.00		
MOTA	1092	0	LEU A	664		25.418	76.143	15.206	1.00	1.46	A	0
ATOM	1093	N	CYS A			25.093	77.970	16.433	1.00	0.00	A	N
	1093		CYS A			26.113	78.742	15.727	1.00	0.60	A	¢
ATOM		CA					80.235	15.826	1.00	2.53	A	Č
MOTA	1095	CB	CYS A			25.833						S
		SG	CYS A	665		25.517	80.981	14.234	1.00	6.81	A	5
MOTA	1096	36	CTO U	000		20.02						

MOTA	1097	С	CYS F					441	78.4			369	1.0	_	0.80		A A	С 0
ATOM	1098	-			65		•	445	78.2 78.4			. 696 . 694	1.0	-	2.06		A	N
ATOM	1099		met <i>i</i> Met <i>i</i>		66 66			418 593	78.3			500	1.0	_	2.69		A	C
ATOM ATOM	1100 1101				66			192	78.0	99		964	1.0		1.39		A	C
ATOM	1102			4 6	66			192	78.7			.895	1.0		1.51		A A	S
ATOM	1103				666		_	361	79.3			.353 .452	1.0		0.75		A	Č
MOTA	1104	CE C	MET A		566 566			430 238	76.8			.084	1.0		2.96		A	C
ATOM ATOM	1105 1106	0			666			419	76.8	315		.754	1.0		3.84		A A	O N
ATOM	1107	N			567			461	75.74.4			.085 .705	1.0		2.06		A	Ĉ
MOTA	1108	CA	LYS A		567 567			.991 .959	73.			.964	1.0		3.10		A	С
ATOM ATOM	1109 1110	CB CG	LYS A	ы (А (567			540	71.	960		.024	1.		2.32		A	C
MOTA	1111	CD	LYS 2	A (567		_	.508	70.			.606 .136	1.0		1.75		A A	C
ATOM	1112	CE	LYS I					.127 .050	71.			.668	1.	-	3.00		A	N
ATOM ATOM	1113 1114	NZ C	LYS :					431	74.	446	16	.243	1.		0.99		A	C 0
ATOM	1115	Ö	LYS 3	A	667			.437	73.			.930	1.		3.23		A A	N
ATOM	1116	N	THR					.711 .141	75. 75.			.343 .945	1.		0.00		A	С
ATOM	1117 1118	CA CB	THR .					.281	75.			.027	1.		0.00		A	С
MOTA MOTA	1119	OG1	THR				26	. 935	75.			.018	1.		0.00		A A	C
ATOM	1120	CG2	THR		668			.811	75.	908 593		.604 .802	1. 1.		0.00		A	Č
MOTA	1121	C	THR				_	.575 .337		092		.975		00	0.00		A	0
ATOM ATOM	1122 1123	o N	LEU					.931	76.	593		. 603		00	0.00		A A	N C
ATOM	1124	CA	LEU	A	669			.268		166 597		.559 .098		00 00	0.00		Ā	Č
ATOM	1125	CB	LEU LEU					.268 .718		668		.143		00	0.69		A	C
ATOM ATOM	1126 1127	CG CD1	LEU					.802	81.	036	14	.796		00	1.66		A A	C
MOTA	1128	CD2	TEO				_	.504		663 322		.839		00 00	0.53		A	č
ATOM	1129	C	LEU LEU		669 669			.240 .433		607		.385		00	0.00		A	0
MOTA MOTA	1130 1131	O N	LEO				32	.731	75.	274		.968		00	0.43		A A	N C
ATOM	1132	CA	LEU	A	670			.601		395 594		5.713 7.737		00 00	1.04		A	č
ATOM	1133	CB CG		_	670 670			.816 .617		572		.031		00	2.00		A	C
ATOM ATOM	1134 1135	CD1			670			.855	72.	877		131		00	1.96		A A	C C
ATOM	1136	CD2	LEU					.928		892 471		3.770 5.685		00	2.92 1.90		A	Č
ATOM	1137	C	LEU		670 670		_	.214		938		.880	_	00	3.58		A	0
MOTA MOTA	1138 1139	И		_	671		33	.497	73.	.298		1.579		00	2.26		A A	N C
MOTA	1140	CA	LEU	A				.948		.454 .258		3.487 2.461		.00	3.12		A	Č
MOTA	1141 1142	CB CG	LEU	A A				.233		504		1.193	1.	.00	2.58		A	C
ATOM ATOM	1143	CD1					32	.002		.911).539		.00	2.66 1.15		A A	C
MOTA	1144	CD2					-	.952		.437 .143		2.832		.00	3.75		A	C
ATOM ATOM	1145 1146	C	LEU					.238		.641	12	2.854		.00	5.20		A	0
ATOM	1147	N		A	672			.832		.307		2.257 1.570		.00	4.27		A A	N C
ATOM	1148	CA	LEO		672			3.837 3.212		.122 .438		1.096		.00	3.24		A	C
MOTA MOTA	1149 1150	CB CG	LEU					.063		.359	10	0.093		.00	2.96		A	C
ATOM	1151	CD1	LEU	A	672			3.512		.750		9.881 8.781		.00	2.32		A A	C
MOTA	1152	CD2			672 672		_	1.545		.750 .451		2.411		.00	2.37		A	C
MOTA MOTA	1153 1154	C O	LEU LEU		672			3.167	75	.529	1	1.895		.00	1.83		A	O N
ATOM	1155	N	SER	A	673			5.872		.634		3.708 4.580		.00	0.69		A A	C N
MOTA	1156				673		_	7.978 7.437		.988 .488		5.931		.00	2.28		A	C
MOTA MOTA	1157 1158				673 673			6.744	77	.724		5.801		.00	3.07		A	C
ATOM	1159		SER	A	673			9.078		.946		4.812 5.891		.00	0.28		A A	Õ
ATOM	1160				673 674			9.189 9.890		.734		3.780		.00	0.4		A	N
MOTA MOTA	1161 1162				674			1.054	73	.833	1	3.790		.00	0.28		A	C
ATOM	1163		SER	A	674			0.795		.540		4.569 5.097		.00	0.0		A A	0
MOTA	1164				674	•		2.004 1.386		.020 .511		2.343		.00	0.0		A	С
MOTA	1165 1166				674 674		_	0.692		.720	1	1.703	1	.00	0.0		A	0
atom Atom	1167		VAL	A	675		4	2.431	.74	.158		1.832		00.	0.0		∴A A	И С
ATOM	1168	CA			675			2.878 2.832		.984		0.457 9.732		.00			A	C
MOTA	1169 1170				675 675			2.832 4.233		.875		9.559	1	.00	6.2	8	A	C
MOTA MOTA	1170		2 VAL				4	2.107	75	.173	3	8.409		00.			A A	C
ATOM	1172	. C	VAL	A	675			4.306		1.459 1.455		.0.493 .1.541		00	_		A	Ö
ATOM	1173				675 676			4.927 4.855		3.017		9.359	1	00	0.0	0	A	N
ATOM ATOM	1174 1175				676		4	4.300	72	2.829	€	8.019		.00			A A	C
MOTA	1176	CA	PRO	A	676			6.227		2.512 1.715		9.418		.00			A	C
ATOM	1177	7 CB	PRO	A	676		4	6.368	, ,,		-		. •					

3000			B= -	CD C		71 546				_	
MOTA	1178		PRO A		44.966						y C
MOTA	1179		PRO A		47.195						J C
ATOM	1180		PRO A		47.003					I	4 0
ATOM	1181	. N	LYS A	677	48.238	73.578	10.273	1.00	2.19	I	A N
ATOM	1182	CA	LYS A	677	49.216	74.651	10.371	1.00	3.58	Į	A C
ATOM	1183		LYS A	677	50.455	74.179					A C
ATOM	1184		LYS A		51.264	75.311				7	
ATOM	1185		LYS A		52.254	74.788				7	
MOTA	1186		LYS A		53.452	74.162				P	
ATOM	1187		LYS A		53.067	73.161	11.157	1.00		P	
ATOM	1188	C	LYS A	677	49.600	75.090	8.971	1.00	4.37	7	C C
ATOM	1189	0	LYS A	677	50.149	76.159	8.781	1.00	4.76	P	0
ATOM	1190	N	ASP A	678	49.315	74.248	7.990	1.00	5.33	P	N
ATOM	1191		ASP A		49.609	74.579		1.00		P	
ATOM	1192		ASP A		49.756	73.321	5.777	1.00		A	
ATOM	1193		ASP A		50.993	72.563	6.114	1.00		A	
ATOM	1194	OD1			52.091	73.092	5.814	1.00		A	
MOTA	1195	OD2			50.867	71.455	6.688	1.00		A	
ATOM	1196		ASP A		48.461	75.388	6.060	1.00		A	
ATOM	1197	0	ASP A	678	48.614	76.570	5.739	1.00	10.53	A	. 0
ATOM	1198	N	GLY A	679	47.306	74.740	5.955	1.00	8.84	A	N
ATOM	1199	CA	GLY A	679	46.128	75.393	5.424	1.00		A	
ATOM	1200	C	GLY A		45.562	74.540	4.314	1.00		A	
ATOM	1201	ŏ	GLY A		46.294	74.093	3.440	1.00		A	
ATOM	1202		LEU A								
		N			44.254	74.318	4.357	1.00		A	
ATOM	1203	CA	LEU A		43.544	73.500	3.374	1.00		A	
MOTA	1204	CB	LEU A		42.031	73.597	3.614	1.00		A	
MOTA	1205	CG	LEU A		41.465	73.871	5.011	1.00	5.30	A	
ATOM	1206	CD1	LEU A	680	39.991	74.217	4.872	1.00	4.49	A	C
ATOM	1207	CD2	LEU A	680	41.669	72.676	5.926	1.00	4.78	A	C
MOTA	1208	С	LEU A	680	43.824	73.922	1.930	1.00	6.34	A	
ATOM	1209	0	LEU A		44.512	74.913	1.681	1.00		A	
ATOM	1210	Ŋ	LYS A		43.284	73.160	0.983	1.00		A	
ATOM	1211	CA	LYS A		43.435	73.483	-0.426	1.00		A	
ATOM	1212	CB	LYS A		43.153	72.264	-1.299	1.00		A	
ATOM	1213	CG	LYS A		44.159	71.139	-1.191	1.00	3.18	A	
ATOM	1214	CD	LYS A		43.884		-2.248	1.00		A	
ATOM	1215	CE	LYS A	681	44.769	68.849	-2.043	1.00	0.52	A	С
ATOM	1216	NZ	LYS A	681	44.576	68.291	-0.680	1.00	0.00	A	N
ATOM	1217	С	LYS A	681	42.403	74.552	-0.761	1.00	3.86	A	С
ATOM	1218	0	LYS A	681	42.267	74.964	-1.909	1.00	5.00	A	
ATOM	1219	Ŋ	SER A		41.670	75.010	0.242	1.00	2.21	A	
ATOM	1220	CA	SER A		40.637		-0.020	1.00	1.48	A	
	1221		SER A								
ATOM		CB			39.263		0.057	1.00	0.59	A	
ATOM	1222	OG	SER A		39.087	74.339	-0.955	1.00	0.00	A	
MOTA	1223	С	SER A		40.651	77.183	0.898	1.00	1.32	A	
ATOM	1224	0	SER A		39.840	78.083	0.727	1.00	2.02	A	
ATOM	1225	N	GLN A	683	41.558	77.200	1.867	1.00	0.99	A	
ATOM	1226	CA	GLN A	683	41.645	78.305	2.818	1.00	0.53	A	C
ATOM	1227	CB	GLN A	683	43.113	78.689	3.037	1.00	0.00	A	С
ATOM	1228	CG	GLN A	683	43.392	79.291	4.402	1.00	0.00	A	С
MOTA	1229	CD	GLN A	683	43.071	78.337	5.540	1.00	0.00	A	С
ATOM	1230	OE1	GLN A		43.144	78.695	6.722	1.00	0.00	A	
ATOM	1231	NE2			42.718	77.112	5.189	1.00	0.00	A	
ATOM	1232	C	GLN A		40.825	79.526	2.362	1.00	1.24	A	c
MOTA	1233	0	GLN A		39.857	79.901	3.018	1.00	0.00	A	
ATOM	1234	N	GLU A		41.200	80.118	1.228	1.00	2.28	A	Ŋ
ATOM	1235	CA	GLU A		40.503	81.286	0.669	1.00	3.12	A	C
MOTA	1236	CB	GLU A		40.747	81.391	-0.843	1.00	2.28	A	С
ATOM	1237	CG	GLU A		42.197	81.390	-1.222	1.00	4.18	A	С
ATOM	1238	CD	GLU A		42.434	80.826	-2.600	1.00	5.76	A	С
MOTA	1239	OE1	GLU A	684	41.763	79.840	-2.974	1.00	6.78	A	0
ATOM	1240	OE2	GLU A	684	43.312	81.356	-3.307	1.00	7.49	A	0
ATOM	1241	C	GLU A		39.015	81.140	0.920	1.00	4.14	A	Ċ
ATOM	1242	Ō	GLU A		38.393	81.969	1.578	1.00	2.58	A	Ō
ATOM	1243	N	LEU A		38.452	80.073	0.376	1.00	6.60	A	Ŋ
ATOM	1244	CA	LEU A		37.044	79.791	0.551				C
	1245							1.00	9.37	A	
ATOM		CB	LEU A		36.668	78.494	-0.188		13.24 .		C
ATOM	1246	CG	LEU A		36.827	78.467	-1.727		16.37	A	C
ATOM	1247		LEU A		38.302	78.646	-2.122		17.41	A	C
MOTA	1248		LEU.A		36.283	77.144	-2.293		17.81		С
ATOM	1249	С	LEU A	685	36.787	79.664	2.057	1.00	8.74	A	C
ATOM	1250	0	LEU A		36.076	80.493	2.636		10.87	A	0
ATOM	1251	N	PHE A		37.382	78.656	2.692	1.00	7.27	A	N
ATOM	1252	CA	PHE A		37.205	78.441	4.128	1.00	6.78	A	C
ATOM	1253	CB	PHE A		38.358	77.605	4.673	1.00	8.71	A	č
ATOM	1254		PHE A		38.498	77.668	6.168	1.00	9.98	A	C
ATOM	1255		PHE A		37.497	77.171	6.995	1.00	8.89	A	C
ATOM	1256		PHE A		39.622	78.253	6.748	1.00	9.64	A	. C
ATOM	1257		PHE A	_	37.612	77.253	8.380	1.00	9.75	Α	C
ATOM	1258	CE2	PHE A	586	39.748	78.342	8.128	1.00	9.87	A	. C

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ATOM	1259		PHE A		38.741	77.843	• • • •	1.00 l 1.00	.0.36 5.41	A A	C C
ATOM	1260	_	PHE A		37.072 36.207	79.715 79.797	* * * * * *	1.00	4.79	A	0
MOTA	1261		PHE A ASP A		37.943	80.691	• • • •	1.00	4.49	A	N
MOTA MOTA	1262 1263		ASP A		37.952	81.967	5.442	1.00	3.91	A A	C
ATOM	1264	CB .	ASP A	687	38.916	82.970	4.780 4.828	1.00 1.00	6.22 8.37	A	č
ATOM	1265		ASP A	687	40.382 40.886	82.530 82.221	5.930	1.00	9.89	A	0
MOTA	1266		ASP A ASP A		41.037	82.515	3.759	1.00	9.81	A	0
ATOM ATOM	1267 1268		ASP A		36.566	82.593	5.458	1.00	3.02	A A	C O
ATOM	1269	0	ASP A	687	36.060	83.014	6.496 4.274	1.00 1.00	0.75	Ä	И
MOTA	1270		GLU A GLU A		35.973 34.652	82.663 83.235	4.094	1.00	3.78	A	C
ATOM ATOM	1271 1272		GLU A		34.243	83.139	2.625	1.00	5.05	A A	C
ATOM	1273	CG	GLU A	688	35.381	83.451	1.666 0.210	1.00 1.00	9.77 12.90	A	Č
MOTA	1274		GLU A		35.082 36.017	83.097 83.188	-0.629		14.16	A	0
ATOM ATOM	1275 1276		GLU A		33.920	82.734	-0.097	1.00		A	0
ATOM	1277	C	GLU A	688	33.681	82.442	4.942	1.00	3.21 2.90	A A	C O
ATOM	1278	0	GLU A		33.117 33.529	82.963 81.166	5.901 4.588	1.00	2.78	A	N
ATOM	1279	N	ILE A		32.609	80.236	5.245	1.00	3.97	A	C
MOTA	1280 1281	CA CB	ILE A		32.710	78.827	4.569	1.00	5.94	A A	C C
ATOM	1282	CG2	ILE A	689	34.063	78.223	4.835 5.072	1.00	6.25 4.28	A	č
ATOM	1283	CG1	ILE A		31.596 31.420	77.901 76.652		1.00	2.06	A	C
ATOM ATOM	1284 1285	CD1	ILE A		32.720	80.113	6.774	1.00	4.08	A	C O
MOTA	1286	Ö	ILE A	689	32.010	79.322	7.396 7.380	1.00	4.53 4.27	A A	Ŋ
MOTA	1287	N	ARG A		33.591 33.752	80.908 80.888	8.827	1.00	5.29	A	С
ATOM ATOM	1288 1289	CA CB	ARG A		35.207	80.566	9.198	1.00	5.81	A	C €
ATOM	1290	CG	ARG A	690	35.521	80.652	10.692 11.028	1.00	4.04 2.22	A A	Č
MOTA	1291	CD	ARG A		36.888 37.550	80.066 80.839	12.072	1.00	0.00	A	N
ATOM ATOM	1292 1293	NE CZ	ARG A		38.368	81.858	11.836	1.00	0.00	A	C N
ATOM	1294	NH1	ARG A	690	38.636	82.222	10.588 12.848	1.00	0.00	A A	N
MOTA	1295	NH2	ARG A		38.902 33.338	82.525 82.249	9.383	1.00	6.52	A	C
MOTA	1296 1297	С 0	ARG A		32.415	82.340	10.199	1.00	7.32	A	O N
ATOM ATOM	1298	N	MET A	4 691	34.018	83.304	8.937 9.369	1.00	7.37 7.80	A A	C
MOTA	1299	CA		A 691 A 691	33.698 34.406	84.658 85.682	8.486	1.00	9.85	A	С
MOTA MOTA	1300 1301	CB CG	MET A		35.903	85.769	8.634	1.00	14.12	A	C S
ATOM	1302	SD	MET A	4 691	36.574	86.503	7.120 7.212	1.00	17.44 16.54	A A	C
ATOM	1303	CE	MET F		38.346 32.194	86.035 84.843	9.218	1.00	6.50	A	C
ATOM ATOM	1304 1305	C	MET F	_	31.588	85.656	9.910	1.00	5.11	A A	O N
ATOM	1306	N	THR F		31.605	84.086	8.294 8.039	1.00	5.25 5.05	A	Ċ
MOTA	1307	CA	THR A		30.171 29.758	84.142 83.292	6.844	1.00	6.07	A	C
atom Atom	1308 1309	CB OG1			28.330	83.216	6.785	1.00	5.94	A A	C
ATOM	1310	CG2	THR A	A 692	30.291	81.898	6.991 9.211	1.00 1.00	7.23 4.25	A	č
MOTA	1311	C		A 692 A 692	29.363 28.444	83.639 84.307	9.665	1.00		A	0
ATOM ATOM	1312 1313	O N		A 693	29.687	82.459	9.705	1.00		A A	И С
ATOM	1314	CA	TYR I	A 693	28.928	81.931	10.819	1.00	2.04 1.85	A	Č
MOTA	1315	CB	TYR I		29.353 28.580	80.479 79.558	10.224	1.00		A	C
ATOM ATOM	1316 1317	CG CD1	TYR I		27.231	79.323	10.466	1.00		A	C
ATOM	1318	CEI	TYR	A 693	26.443		9.550 9.036	1.00 1.00	_ +	A A	Č
MOTA	1319		2 TYR	A 693 A 693	29.127 28.347		8.106	1.00		A	C
atom atom	1320 1321			A 693	27.001	78.241	8.367	1.00		A A	C O
ATOM	1322		TYR .	A 693	26.201		7.433 12.019	1.00		A	Č
MOTA	1323			A 693	29.050 28.086		12.757	1.00		A	0
ATOM ATOM	1324 1325			A 693 A 694	30.233		12.182	1.00		A	N C
ATOM	1326		ILE	A 694	30.481	84.311				A A	C
MOTA	1327	CB		A 694	31.855 32.170			1.00		A	С
MOTA	1328 1329		2 ILE 1 ILE	A 694	32.170		12.934	1.00	:6.28	A	C
MOTA MOTA	1329		1 ILE	A 694	34.232	84.349	12.535			A A	C
MOTA	1331	C	ILE	A 694	29.411					_	ŏ
ATOM	1332			A 694 A 695	28.818 29.152		12.164	1.00	6.63	A	N
ATOM ATOM	1333 1334			A 695	28.110	87.038	12.123	1.00		_	C
ATOM	1335	СВ	LYS	A 695	27.915					_	С
MOTA	1336			A 695 A 695	28.139 27.684				3.90	A	C
MOTA MOTA	1337 1338			A 695	28.315	89.018	8.059	1.00	_	_	C N
ATOM	1339			A 695	29.808	89.062	8.047	1.00	3.30	n	44

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ATOM 1340 C	LYS A 695	^^ -						
ATOM 1341 O		26.8			594 1.0	0 6.48	A	
3 mars	LYS A 695	26.0	_ • • •			0 7.04	A	
Amour to to	GLU A 696	26.5			090 1.0	0 5.15	A	
		25.3		453 12.	480 1.0		A	
		25.3		072 11.	846 1.0		A	
		23.9	23 82.	711 11.:	379 1.0		A	
ATOM 1346 CD		23.3	89 83.7				A	
ATOM 1347 OE		24.0	16 83.9	_	355 1.0		Ā	
ATOM 1348 OE		22.3					A	
ATOM 1349 C	GLU A 696	25.3					A	
ATOM 1350 O	GLU A 696	24.30					A	
ATOM 1351 N	LEU A 697	26.54						
ATOM 1352 CA	+ b ,	26.66					A	
ATOM 1353 CB	LEU A 697	28.06					A	
ATOM 1354 CG	LEU A 697	28.48					A	
ATOM 1355 CD1	,	27.52					A	
ATOM 1356 CD2		29.89					A	
ATOM 1357 C	LEU A 697	26.46					A	
ATOM 1358 O	LEU A 697	25.92					A	
ATOM 1359 N	GLY A 698	26.87					A	
ATOM 1360 CA	GLY A 698	26.75					A	
ATOM 1361 C	GLY A 698	25.32					A	
ATOM 1362 O	GLY A 698	25.05					A	
ATOM 1363 N	LYS A 699	24.39					A	
ATOM 1364 CA	LYS A 699	23.00					A]
ATOM 1365 CB	LYS A 699	22.40					A	(
ATOM 1366 CG.	LYS A 699	23.11			•		A	(
ATOM 1367 CD	LYS A 699	22.47					A	(
ATOM 1368 CE	LYS A 699	23.15				0.60	A	(
ATOM 1369 NZ	LYS A 699	23.13				0.00	A	(
ATOM 1370 C	LYS A 699	22.313				0.00	A	1
ATOM 1371 O	LYS A 699	21.224				5.36	A	(
ATOM 1372 N	ALA A 700	23.005				6.37	A	C
ATOM 1373 CA	ALA A 700	22.545				5.81		V
ATOM 1374 CB	ALA A 700	23.464		_ · · · _ ·		4.96	_	C
ATOM 1375 C	ALA A 700	22.488				5.62		C
ATOM 1376 O	ALA A 700	21.599				3.72		C
ATOM 1377 N	ILE A 701	23.457				3.83		0
ATOM 1378 CA	ILE A 701	23.557				1.51		N
ATOM 1379 CB	ILE A 701	24.972				0.37		¢
ATOM 1380 CG2	ILE A 701	24.987			_	0.12		C
	ILE A 701	25.973			_	0.00		C
ATOM 1382 CD1	ILE A 701	27.405				0.00		C
ATOM 1383 C	ILE A 701	22.676				0.00		C
ATOM 1384 O	ILE A 701	22.409				0.03		C
	VAL A 702	22.237			•	0.04		0
	VAL A 702	21.392				0.28 0.00		N
	VAL A 702	21.724				0.00		
	VAL A 702	20.465	90.915			0.00	A C	
	VAL A 702	22.644	91.723			0.00	A C	
	VAL A 702	19.916	89.585			0.00	A C	
	VAL A 702	19.146	90.333			0.00	A C	
	LYS A 703	19.534	88.433		- ·	0.00	A N	
	LYS A 703	18.149	87.970			0.61	A C	
	LYS A 703	18.063	86.511			0.00	A C	
	YS A 703	18.473	86.255			0.00	A C	
	YS A 703	17.368	86.597	-	•	0.00	A C	
	YS A 703	16.189	85.653	16.500		0.00	A C	
	YS A 703	15.097	85.982	15.536		0.00	A N	
	YS A 703	17.605	88.115	20.625		1.66	A C	
	YS A 703	16.544	88.693	20.845		1.83	A O	
	RG A 704	18.341	87.589	21.588		2.59	A N	
	RG A 704	17.935	87.680	22.976		3.86	A C	
	RG A 704	18.716	86.631	23.761		1.08	A C	
	RG A 704	18.570	85.238	23.136	1.00	0.00	A C	
	RG A 704	17.175	84.623	23.428	1.00	0.29	A C	
	RG A 704 RG A 704	16.360	84.323	22.247	1.00	1.34	A N	
	RG A 704	16:705	83.462	21.297		2.98	A C	
	RG A 704	17.853	82.816	21.386		3.22	A N	
	RG A 704 : .	15.904	83.239	20.263		2.29	A N	
	RG A 704	18.270	89.115	23.403		5.00	A C	
	50 A 704	19.056	89.337	24.329		5.23	A o	
	JU A 705	17.641	90.080	22.719		3.87	A N	
	U A 705	17.860	91.523	22.909	1.00 11		A C	
	D A 705	A -	92.084	24.087		.59	A C	
	D A 705		91.576	25.475		. 03	A C	
	U A 705		91.955	26.532		.39	A C	
	O A 705		91.602	27.726		.32	A o	
	U A 705	-	92.599	26.170		.90	A o	
	U A 705		91.819	23.065	1.00 13		A C	
. 32	• •	-0.17	91.052	22.575	1.00 14	. 70	A O	

								- 00 '	1 A EO	A	N
N MOM	1421	N G	SLY A	706	19.698	92.928	23.711	1.00			
ATOM			GLY A	_		93.243	23.860		13.30	A	C
MOTA	1422				21.533	94.695	24.063	1.00	13.20	A	С
MOTA	1423	_	GLY A		-		24.159		14.43	A	0
ATOM	1424		GLY A		20.694	95.601		200	11.55	A	N
ATOM	1425	N Z	ASN A	707	22.849	94.902	24.132				C
			ASN A		23.463	96.221	24.335	1.00	9.56	A	
ATOM	1426				23.500	96.567	25.841	1.00	5.07	A	С
MOTA	1427		ASN A			98.063	26.123	1.00	1.03	A	C
ATOM	1428	CG I	ASN A		23.740			1.00	0.00	A	0
ATOM	1429	OD1	ASN A	707	23,426	98.548	27.213			A	N
	1430		ASN A		24.299	98.782	25.158	1.00	0.00		
ATOM					24.877	96.042	23.821	1.00	10.04	A	С
MOTA	1431		ASN A		25.588	95.198	24.334	1.00	9.41	A	0
MOTA	1432		ASN A				22.818		10.68	A	N
ATOM	1433	N	SER A	708	25.284	96.820			10.31	A	C
ATOM	1434	CA	SER A	708	26.635	96.694	22.255				Č
			SER A		26.893	97.751	21.188	1.00	9.93	A	
MOTA	1435				28.170	97.541	20.599	1.00	9.05	A	0
ATOM	1436		SER A			96.738	23.262	1.00	10.39	A	Ç
ATOM	1437		SER A		27.780	-			11.52	A	0
ATOM	1438	0	SER A	708	28.941	96.598	22.885			Α	N
-	1439		SER A		27.467	96.974	24.532	1.00	9.40		
ATOM			SER A		28.494	96.957	25.569	1.00	8.56	A	С
MOTA	1440				28.253	98.053	26.618	1.00	5.99	A	C
ATOM	1441		SER A				26.147	1.00	1.95	A	0
ATOM.	1442	OG	SER A	709	28.697	99.320			9.62	A	Ç
ATOM	1443	С	SER A	709	28.343	95.563	26.177	1.00			Ö
			SER A		29.295	94.987	26.711	1.00	8.59	A	
ATOM	1444				27.125	95.032	26.048	1.00	11.06	A	N
MOTA	1445		GLN A			93.697	26.529	1.00	11.27	A	C
MOTA	1446	-	GLN A		26.763	-	27.288		10.72	A	С
MOTA	1447	CB	GLN A	710	25.417	93.758			10.12	A	C
	1448		GLN A	710	25.143	92.547	28.203	1.00			
ATOM		• -	GLN A		23.981	92.749	29.175	1.00	9.53	A	C
ATOM	1449	CD			24.084	93.502	30.146	1.00	8.92	A	0
ATOM	1450	OE1	GLN A	_		92.068	28.912	1.00	8.68	A	N
MOTA	1451	NE2	GLN F	710	22.871				10.93	A	С
ATOM	1452	С	GLN F	710	26.698	92 .7 35	25.313				ŏ
		ŏ		710	26.680	91.499	25.458	1.00	11.13	A	
MOTA	1453				26.665	93.312	24.114	1.00	9.97	A	N
ATOM	1454	N	ASN I			92.511	22.901	1.00	9.00	A	C
ATOM	1455	CA		3 711	26.660		21.645	1.00	9.76	A	С
ATOM	1456	CB	ASN A	3 711	26.429	93.369				A	С
	1457	CG		A 711	24.949	93.527	21.290		10.03		
MOTA				A 711	24.608	93.787	20.135	1.00	10.50	A	0
ATOM	1458				24.071	93.380	22.279	1.00	10.24	A	N
ATOM	1459	ND2		A 711		91.962	22.898	1.00	B.33	A	C
MOTA	1460	C		A 711	28.075			1.00	8.46	A	0
MOTA	1461	0	ASN A	A 711	28.299	90.820	23.293				N
	1462	N		A 712	29.028	92.797	22.490	1.00	7.41	A	
MOTA				A 712	30.431	92.405	22.459	1.00	6.17	A	C
MOTA	1463	CA				93.454	21,703	1.00	4.41	A	C
ATOM	1464	CB		A 712	31.268	_	20.202	1.00	2.75	A	C
ATOM	1465	CG	TRP I	A 712	31.288	93.276			1.92	A	С
ATOM	1466	CD2	TRP 2	A 712	30.725	94.153	19.223	1.00			č
		CE2		A 712	30.982	93.581	17.949	1.00	1.81	A	
MOTA	1467		-	_	30.029	95.369	19.295	1.00	2.80	A	С
ATOM	1468	CE3		A 712		92.240	19.503	1.00	1.53	A	С
ATOM	1469	CD1	TRP	A 712	31.848		18.151	1.00		A	N
ATOM	1470	NE1	TRP	A 712	31.670	92.417				A	C
	1471	CZ2	TRP :	A 712	30.567	94.181	16.755	1.00			
MOTA		CZ3		A 712	29.614	95.978	18.102	1.00		A	C
ATOM	1472				29.888	95.377	16.846	1.00	2.47	A	С
MOTA	1473	CH2		A 712		92.228	23.887	1.00	6.22	A	С
ATOM	1474	C	TRP	A 712	30.966	_		1.00		A	0
MOTA	1475	0	TRP	A 712	32.105	92.587	24.175			A	N
	1476	N	GLN	A 713	30.136	91.673	24.770				
MOTA			GLN		30.495	91.421	26.173	1.00		A	C
ATOM	1477	CA			29.628	92.292	27.096	1.00		A	С
MOTA	1478	CB		A 713		92.903	28.306			A	С
MOTA	1479	CG	GLN		30.334					A	С
ATOM	1480	CD	GLN	A 713	30.793	91.879				A	ŏ
	1481	OE1		A 713	31.801	91.199					
MOTA				A 713	30.045	91.764	30.413	1.00		A	N
MOTA	1482	NE2			30.259	89.919			7.67	A	С
MOTA	1483	C		A 713		89.368				A	0
MOTA	1484	0	GLN	A 713	30.728					A	N
ATOM	1485	N	ARG	A 714	29.506	89.270					c
			A D.C	A 714	29.240		25.697	1.00		A	
MOTA	1486		ANG	2 714	27.742				6.30	A	С
MOTA	1487	СВ	ARG	A 714				_		A.	C
ATOM	1488	CG	ARG	A 714	27.138					A	С
ATOM	1489	CD	ARG	A 714	25.671	86.566					N
			D DC	A 714	25.469		25.998	1.00		A	
MOTA	1490		DAG	n 714	25.344			, qI.00	1.70	: A	C
ATOM	1.491	CZ		A 714						A	N
ATOM	1492	NH1		A 714	25.399					A	N
ATOM	1493			A 714	25.160						Ç
	1494		ARG	A 714	29.986	87.211				A	
ATOM			ADC.	A 714	30.481			1.00		A	0
MOTA	1495									A	N
MOTA	1496	N	PHE	A 715	30.078					A	C
ATOM	1497			A 715	30.805					A	č
	1498			A 715	30.852	88.350					
ATOM				A 715	31.662		19.998			A	C
ATOM	1499								0.00	A	С
ATOM	1500	רח)	LPHE	A 715	31.075					A	С
WION	1500		-				ינים מד (1 11 - 1141		~
MOTA	1500		PHE	A 715	33.026	88.098	19.921	1.00	0.00	A	•

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ATOM	1502	CE1	PHE A 715	31.832	86.585	17.946	1.00	0.00	A A	C
MOTA	1503		PHE A 715	33.791	B7.616	18.867 17.877	1.00	0.00	A	Č
ATOM	1504	_	PHE A 715	33.193 32.215	86.862 87.167	22.756	1.00	2.81	A	C
MOTA	1505	C	PHE A 715 PHE A 715	33.003	86.584	22.032	1.00	2.78	A	0
ATOM ATOM	1506 1507	N O	TYR A 716	32.559	87.670	23.932	1.00	4.94	A	N
ATOM	1508	CA	TYR A 716	33.898	87.429	24.433	1.00	6.32	A A	C
ATOM	1509	CB	TYR A 716	34.315	88.441	25.491	1.00	4.84 5.32	A A	C
MOTA	1510	CG	TYR A 716	35.684	88.113 87.469	26.048 27.273	1.00	4.24	A	Ċ
MOTA	1511	CD1 CE1	TYR A 716 TYR A 716	35.827 37.077	87.083	27.740	1.00	4.26	A	C
ATOM ATOM	1512 1513		TYR A 716	36.837	88.368	25.304	1.00	4.98	A	C
ATOM	1514		TYR A 716	38.089	87.984	25.763	1.00	4.48	A A	C
MOTA	1515	CZ	TYR A 716	38.202	87.340	26.980 27.435	1.00	4.17 5.02	A	Õ
MOTA	1516	OH	TYR A 716	39.440 33.851	86.943 86.049	25.063	1.00	6.65	A	C
MOTA	1517 1518	0	TYR A 716 TYR A 716	34.599	85.151	24.677	1.00	7.40	A	0
ATOM ATOM	1519	N	GLN A 717	32.946	85.884	26.023	1.00	5.38	A	N C
ATOM	1520	CA	GLN A 717	32.775	84.615	26.721	1.00	4.32 4.38	A A	C
MOTA	1521	CB	GLN A 717	31.696	84.775 85.659	27.786 28.948	1.00	3.72	A	č
ATOM	1522	CG	GLN A 717 GLN A 717	32.118 33.157	84.985	29.807	1.00	3.02	A	C
MOTA MOTA	1523 1524	CD OE1	GLN A 717 GLN A 717	33.586	B5.522	30.823	1.00	0.12	A	0
ATOM	1525	NE2	GLN A 717	33.569	83.787	29.401	1.00	3.65	A A	N C
ATOM	1526	C	GLN A 717	32.463	83.420	25.811 25.957	1.00 1.00	3.42 1.69	A	Õ
MOTA	1527	0	GLN A 717	33.073 31.524	82.363 83.578	24.881	1.00	3.14	A	N
ATOM	1528 1529	N CA	LEU A 718 LEU A 718	31.194	82.486	23.977	1.00	2.41	A	C
ATOM ATOM	1530	CB	LEU A 718	29.994	82.815	23.097	1.00	1.83	A	C
ATOM	1531	CG	LEU A 718	28.701	83.127	23.844	1.00	2.16 2.76	A A	C
MOTA	1532	CD1	LEU A 718	27.533 28.522	83.009 82.184	22.888 25.009	1.00	2.57	A	č
MOTA	1533	CD2	LEU A 718 LEU A 718	32.381	82.172	23.104	1.00	2.30	A	C
ATOM ATOM	1534 1535	0	LEU A 718	32.418	81.149	22.450	1.00	3.41	A	o N
ATOM	1536	N	THR A 719	33.352	83.065	23.069	1.00	2.24 3.59	A A	C
ATOM	1537	CA	THR A 719	34.549 35.034	82.795 84.083	22.293 21.532	1.00	4.42	A	C
MOTA	1538 1539	CB OG1	THR A 719 THR A 719	34.182	84.308	20.401	1.00	2.60	A	0
ATOM ATOM	1540	CG2	THR A 719	36.471	B3.941	21.028	1.00	3.27	A A	C
ATOM	1541	C	THR A 719	35.575	82.280 81.780	23.324 22.976	1.00 1.00	5.21 4.34	A	ŏ
ATOM	1542	0	THR A 719 LYS A 720	36.647 35.193	82.379	24.600	1.00	6.41	A	N
ATOM ATOM	1543 1544	N CA	LYS A 720	36.007	81.929	25.734	1.00	7.03	A	C
ATOM	1545	CB	LYS A 720	35.539	82.619	27.025	1.00	6.13 5.37	A A	C
ATOM	1546	CG	LYS A 720	36.539 37.663	82.620 83.634	28.182 27.977	1.00	3.60	A	Ċ
ATOM	1547	CD CE	LYS A 720 LYS A 720	38.589	83.700	29.189	1.00	2.91	A	C
ATOM ATOM	1548 1549	NZ	LYS A 720	37.903	84.103	30.446	1.00	1.42	A	N C
ATOM	1550	C	LYS A 720	35.782	80.421	25.855	$1.00 \\ 1.00$	7.38 7.74	A A	Ö
ATOM	1551	0	LYS A 720 LEU A 721	36.730 34.512	79.631 80.030	25.908 25.910	1.00	7.00	A	N
MOTA	1552 1553	n Ca	LEU A 721 LEU A 721	34.169	78.619	25.992	1.00	7.12.	A	C
ATOM ATOM	1554	CB	LEU A 721	32.660	78.435	25.860	1.00	5.23 4.81	A A	C
ATOM	1555	CG	LEU A 721	32.169	77.021 76.597	26.130 27.548	1.00 1.00	4.72	A	č
MOTA	1556	CD1		32.511 30.695	76.983	25.916	1.00	4.28	A	C
ATOM ATOM	1557 1558	CD2	LEU A 721	34.885	77.924	24.836	1.00	7.81	A	C
ATOM	1559	Ō	LEU A 721	35.878	77.237	25.040	1.00	5.88 7.41	A A	N
ATOM	1560	N	LEU A 722	34.385	78.126 77.537	23.621 22.431	1.00 1.00	4.26	A	C
ATOM	1561	CA CB	LEU A 722 LEU A 722	34.994 34.457	78.159	21.142	1.00	2.07	A	C
MOTA MOTA	1562 1563	CG	LEU A 722	33.007	77.983	20.721	1.00	1.49	A	C
ATOM	1564	CD1	LEU A 722	32.762	78.829	19.508	1.00	1.51 0.89	A A	C
ATOM	1565	CD2		32.723 36.474	76.537 77.783	20.414 22.456	1.00 1.00	1.91	A	C
ATOM	1566	C	LEU A 722 LEU A 722	37.200		21.649	1.00	4.15	A	0
ATOM ATOM	1567 1568	O N	ASP A 723	36.922		23.348	1.00	0.00	A	И С
ATOM	1569	CA	ASP A 723	38.341		23.444	1.00 1.00	0.00 2.77	A A	C
ATOM	1570	CB	ASP A 723	38.577		24.012 23.085	1.00	1.89	A	C
ATOM	1571	CG	ASP A 723 ASP A 723	39.382 39.076		21.875	1.00	1.94	 A	0
ATOM:	1572 1573	OD1		40.304	81.892	23.562	1.00	2.67	A	O C
ATOM	1574	C	ASP A 723			24.361	1.00	0.07	A A	0
ATOM	1575	0	ASP A 723			24.080 25.452	1.00 1.00		A	N
MOTA	1576	N	SER A 724 SER A 724			26.446	1.00	0.49	A	C
atom atom	1577 1578	CA CB	SER A 724		76.858	27.768	1.00		A	C
ATOM	1579	OG	SER A 724	36.479		27.646	1.00		A A	C
MOTA	1580	C	SER A 724				1.00		A	0
MOTA	1581 1582	N O	SER A 724 MET A 725				1.00		A	N
ATOM	1302	74								

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						72 070	24.142	1.00	3.27	A	C
MOTA	1583	CA	MET A	725	37.386	73.878		_	1.49	A	C
ATOM	1584	CB	MET A	725	36.446	74.057	22.955	1.00			Č
	1585	CG	MET A	725	35.003	74.115	23.378	1.00	0.00	A	
ATOM		-		725	34.593	72.720	24.435	1.00	0.00	A	S
MOTA	1586	SD				71.571	23.228	1.00	0.00	A	C
ATOM	1587	CE		725	34.143	-			5.34	A	С
ATOM	1588	С	MET A	725	38.598	73.071	23.723	1.00			ŏ
		Ō	MET A		38.750	71.922	24.142	1.00	6.48	A	
ATOM	1589				39.466	73.659	22.904	1.00	6.92	A	N
ATOM	1590	N		726					7.76	A	С
ATOM	1591	CA	HIS A	726	40.661	72.940	22.450	1.00			
		CB	HIS A		41.604	73.870	21.699	1.00	7.20	A	C
ATOM	1592	_			40.914	74.821	20.771	1.00	8.49	A	С
ATOM	1593	CG	HIS A					1.00	7.36	A	С
ATOM	1594	CD2	HIS A	726	41.087	75.054	19.449				N
	1595	ND1	HIS A	726	39.970	75.726	21.202	1.00	6.69	A	
MOTA			HIS A		39.594	76.480	20.184	1.00	7.19	A	C
MOTA	1596	CE1				76.093	19.110	1.00	7.57	A	N
ATOM	1597	NE2			40.258				7.38	A	С
ATOM	1598	С	HIS A	726	41.409	72.340	23.639	1.00			Ö
		ō		726	41.919	71.225	23.558	1.00	7.19	A	
MOTA	1599	_			41.477	73.089	24.737	1.00	6.23	A	N
ATOM	1600	N	GLU A				25.938	1.00	4.21	A	C
ATOM	1601	CA	GLU A	727	42.156	72.622				A	C
ATOM	1602	CB	GLU A	727	42.345	73.779	26.942	1.00	6.03		
					43.378	74.844	26.524	1.00	8.05	A	С
ATOM	1603	CG	GLU A			75.125	27.606	1.00	9.58	A	С
ATOM	1604	CD	GLU A		44.452				10.35	A	0
ATOM	1605	OE1	GLU A	727	44.079	75.498	28.743	•			ō
	1606	OE2			45.670	74.975	27.318	1.00	9.03	A	
MOTA		_			41.406	71.475	26.615	1.00	1.78	A	С
ATOM	1607	С	GLU A				27.512	1.00	2.34	A	0
ATOM	1608	0	GLU A		41.932	70.845			0.00	A	N
ATOM	1609	N	VAL A	728	40.182	71.200	26.186	1.00			
		CA		728	39.388	70.133	26.795	1.00	0.00	A	C
ATOM	1610				37.862	70.430	26.686	1.00	0.00	A	C
MOTA	1611	CB	VAL A				27.041	1.00	0.00	A	С
ATOM	1612	CG1	VAL A	728	37.066	69.203				A	C
ATOM	1613	CG2	VAL A	728	37.473	71.574	27.618	1.00	0.00		
		C	VAL A		39.659	68.795	26.131	1.00	0.00	A	C
MOTA	1614	_			40.085	67.841	26.770	1.00	0.00	A	0
MOTA	1615	0	VAL A			-	24.834	1.00	0.98	A	N
ATOM	1616	N	VAL A	729	39.398	68.749				A	C
ATOM	1617	CA	VAL A	729	39.578	67.564	24.016	1.00	1.12		
			VAL A		39.193	67.888	22.572	1.00	0.91	A	С
MOTA	1618	CB			39.412	66.717	21.689	1.00	0.99	A	С
MOTA	1619	CG1					22.527	1.00	3.41	A	С
ATOM	1620	CG2	VAL A	729	37.748	68.296				A	Ċ
ATOM	1621	C	VAL A		40.969	66.933	24.063	1.00	0.04		
			VAL A		41.113	65.766	23.742	1.00	0.54	A	0
ATOM	1622	0			41.997	67.684	24.445	1.00	0.00	A	N
MOTA	1623	N	GLU A					1.00	0.00	A	С
ATOM	1624	CA	GLU A	730	43.317	67.078	24.539				č
	1625	CB	GLU A		44.418	68.111	24.814	1.00	0.00	A	
ATOM					45.869	67.518	24.894	1.00	0.00	A	C
ATOM	1626	CG	GLU A			67.685	26.272	1.00	0.00	A	С
ATOM	1627	CD	GLU A		46.540				0.00	A	0
ATOM	1628	OE1	L GLU A	730	47.701	67.266	26.422	1.00			
	1629	OE2			45.913	68.231	27.211	1.00	0.08	A	0
ATOM			GLU A		43.209	66.153	25.726	1.00	0.00	A	С
MOTA	1630	C				65.046	25.716	1.00	0.00	A	0
ATOM	1631	0	GLU A		43.744			1.00	0.00	A	N
MOTA	1632	N	ASN A	731	42.510	66.619	26.755				C
	1633	CA	ASN A		42.317	65.824	27.963	1.00	0.00	A	
ATOM			ASN A		41.755	66.694	29.086	1.00	0.00	A	С
ATOM	1634	СB			42.811	67.545	29.731	1.00	0.00	A	С
MOTA	1635	CG	ASN A				30.924	1.00	0.00	A	0
ATOM	1636	OD:	1 ASN A	731	42.736	67.829					N
	1637	ND		731	43.810	67.962	28.949	1.00	0.00	A	
ATOM			ASN A		41.411	64.609	27.748	1.00	0.00	A	C
ATOM	1638	C			41.661	63.521	28.273	1.00	0.00	A	0
ATOM	1639	0	ASN A					1.00	0.00	A	N
ATOM	1640	N	LEU A		40.352	64,806	26.979		0.00	A	C
ATOM	1641	CA	LEU A		39.430	63.739	26.695	1.00			
	1642	CB	LEU A		38.126	64.329	26.178	1.00	0.00	A	C
ATOM					37.030	64.595	27.207	1.00	0.00	A	С
ATOM	1643	CG	LEU A			63.300		1.00	0.00	A	·C
MOTA	1644	CD:	l LEU A	732	36.288				0.00	_	Ċ
ATOM	1645	CD:	2 LEU A	732	37.594	65.116		1.00		A	
			LEU A	732	40.049	62.800	25.682	1.00	0.00	A	С
ATOM	1646				40.056	61.594		1.00	0.00	A	0
MOTA	1647		LEU A				_		0.00	A	Ŋ
ATOM	1648	N	LEU A		40.574	63.341		:			C
	1649				41.225	62.502			0.26	A	
ATOM			LEU A		41.862	63.353		1.00	0.03	A	C
MOTA	1650					64.176			1.12	A	C
MOTA	1651	CG			40.887				1.37	A	C
ATOM	1652		1 LEU A	733	41.638	64.855					č
	1653		2 LEU A		39.767	63.262	· 21.133		3.49	A	
MOTA			LEU A	723	42.310	61.659			0.77	A	С
ATOM	1654		750 A	700		60.480			0.00	A	0
MOTA	1655	0	LEU A	133	42.451					A	N
ATOM	1656	N	ASN A	734	43.078	62.296					Ċ
ATOM	1657			734	44.136	61.637				A	
				734	44.876			1.00		A	
ATOM	1658				46.027	63.343			1.78	A	
ATOM	1659		ASN A	134						A	
ATOM	1660	OD			45.954					A	
ATOM	1661				47.095				_		
			ASN A	734	43.510		26.725	1.00		A	
ATOM	1662		PUN S	724	44.080				5.37	A	0
	1663	0	ASN A	134	44.000	00.196			-		
MOTA	1002	•									

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ATOM	1664	N	TYR A	735	42.329	60.084	26.351	1.00	5.64	A	N
ATOM	1665	CA	TYR A	735	41.646	59.041	27.115	1.00	7.62	A A	C C
ATOM	1666	CB		735	40.944	59.651	28.342	1.00	7.88 8.63	A	C
ATOM	1667	CG	TYR A		41.295	59.013	29.687 29.912	1.00	8.27	A	Ċ
ATOM	1668	CD1	TYR A		41.092	57.650 57.069	31.158	1.00	7.44	A	C
ATOM	1669	CE1	TYR A		41.369 41.789	59.785	30.746	1.00	7.71	A	С
ATOM	1670	CD2	TYR A		42.069	59.217	31.996	1.00	6.69	A	С
ATOM	1671	CE2	TYR A		41.858	57.853	32.196	1.00	7.17	A	С
ATOM	1672	CZ	TYR A		42.151	57.261	33.413	1.00	6.25	A	0
ATOM	1673 1674	OH C	TYR A		40.636	58.275	26.231	1.00	8.33	A	С
MOTA MOTA	1675	Ö	TYR A		39.890	57.417	26.706	1.00	9.28	A	0
ATOM	1676	Ŋ	CYS A		40.603	58.607	24.947	1.00	8.05	A	N
ATOM	1677	CA	CYS A		39.736	57.926	23.992	1.00	7.40	A	C
ATOM	1678	CB	CYS A		38.700	58.899	23.409	1.00	7.12	A	C S
ATOM	1679	SG	CYS A		39.325	60.290	22.421	1.00	5.81	A A	C
ATOM	1680	С	CYS A		40.727	57.485	22.933	1.00 1.00	7.61 8.89	Ā	Ö
ATOM	1681	0	CYS A		40.403	56.833	21.952 23.196	1.00	7.54	A	N
ATOM	1682	N	PHE A		41.961 43.154	57.883 57.632	22.398	1.00	6.57	A	C
ATOM	1683	CA	PHE A		43.134	58.978	22.140	1.00	5.79	A	C
MOTA	1684	CB	PHE A		45.230	58.871	21.572	1.00	3.18	A	С
ATOM	1685 1686	CG CD1	PHE A		45.441	58.945	20.203	1.00	3.63	A	С
ATOM ATOM	1687	CD2	PHE A		46.319	58.728	22.403	1.00	2.19	A	C
ATOM	1688	CE1	PHE A		46.721	58.879	19.673	1.00	0.91	A	C
ATOM	1689	CE2	PHE A		47.599	58.661	21.882	1.00	2.56	A	C
ATOM	1690	CZ	PHE A	737	47.800	58.738	20.516	1.00	1.43	A	C
ATOM	1691	C	PHE A		44.005	56.771	23.333	1.00	6.49	A A	0
ATOM	1692	0	PHE A		44.808	55.951	22.899	1.00	6.32 6.22	A	N
ATOM	1693	N	GLN A		43.795	56.982	24.628 25.677	1.00	6.20	A	Ĉ
MOTA	1694	CA	GLN A		44.498 45.355	56.275 57.266	26.455	1.00	6.44	A	С
MOTA	1695	CB	GLN A		45.333	56.669	27.606	1.00	8.72	A	С
ATOM	1696	CG CD	GLN A		46.808	57.738	28.468	1.00	9.91	A	C
ATOM ATOM	1697 1698	OE1	GLN A		47.444	58.667	27.945	1.00	9.37	A	0
ATOM	1699	NE2	GLN A		46.666	57.612	29.796	1.00	9.20	A	N
ATOM	1700	C	GLN A		43.496	55.608	26.612	1.00	6.57	A	C
ATOM	1701	0	GLN A		9999.0009	999.0009	999.000	1.00	0.00	A	0
ATOM	1702	OXT	GLN A		9999.0009			1.00	0.00	A B	Ċ
ATOM	1703	CB	THR B		16.410	64.698	54.095	1.00 1.00	11.15	В	ŏ
MOTA	1704	OG1	THR B		16.356	64.023 65.780	52.823 54.147		10.76	В	č
ATOM	1705	CG2	THR B		15.335 18.864	64.287	54.076	1.00	9.19	В	С
ATOM	1706	C	THR B		19.150	63.911	52.942	1.00	9.20	В	0
ATOM	1707 1708	O N	THR B		18.022	66.485	53.369	1.00	9.74	В	N
ATOM ATOM	1709	CA	THR B		17.801	65.342	54.305	1.00	10.21	В	C
ATOM	1710	N	LEU B		19.468	63.820	55.155	1.00	7.92	В	И
ATOM	1711	CA	LEU B	532	20.491	62.803	55.027	1.00	8.18	В	C
ATOM	1712	CB	LEU B	532	21.857	63.445	54.782	1.00	10.08	B B	Č
MOTA	1713	CG	LEU B		22.989	62.475	54.431 53.767		12.62	В	č
MOTA	1714	CD1	LEU B		24.127 23.459	63.239 61.751	55.688		12.93	B	C
ATOM	1715	CD2	LEU B		20.520	61.935	56.267	1.00	7.59	В	С
ATOM	1716 1717	C O	LEU B		20.734	60.730	56.181	1.00	6.51	В	0
ATOM ATOM	1717	Ŋ	VAL B		20.305	62.550	57.422	1.00	7.14	В	N
ATOM	1719	CA	VAL B		20.290	61.799	58.654	1.00	5.56	В	C
ATOM	1720	CB	VAL B		20.100	62.714	59.865	1 00	2.34	В	C
ATOM	1721		T	につつ				1.00			C
n most	7177	CG1	VAL B		20.199	61.925	61.137	1.00	0.89	B	
ATOM	1722	CG2	VAL B	533	20.199 21.168	61.925 63.777	61.137 59.860	1.00 1.00	0.89 0.44	В	С
MOTA	1722 1723	CG2 C	VAL B	533 533	20.199 21.168 19.132	61.925 63.777 60.822	61.137 59.860 58.541	1.00 1.00 1.00	0.89 0.44 6.57		
ATOM ATOM	1722 1723 1724	CG2 C O	VAL B VAL B VAL B	533 533 533	20.199 21.168 19.132 19.148	61.925 63.777 60.822 59.758	61.137 59.860 58.541 59.168	1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85	B B	C
MOTA MOTA MOTA	1722 1723 1724 1725	CG2 C O N	VAL B VAL B VAL B SER B	533 533 533 534	20.199 21.168 19.132 19.148 18.140	61.925 63.777 60.822 59.758 61.164	61.137 59.860 58.541 59.168 57.716	1.00 1.00 1.00	0.89 0.44 6.57	B B B	C C O
ATOM ATOM ATOM	1722 1723 1724 1725 1726	CG2 C O N CA	VAL B VAL B VAL B SER B SER B	533 533 533 534 534	20.199 21.168 19.132 19.148 18.140 16.984	61.925 63.777 60.822 59.758 61.164 60.284	61.137 59.860 58.541 59.168 57.716 57.519	1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99	B B B	C O N
ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727	CG2 C O N CA CB	VAL B VAL B SER B SER B SER B	533 533 533 534 534 534	20.199 21.168 19.132 19.148 18.140 16.984 15.873	61.925 63.777 60.822 59.758 61.164 60.284 61.009	61.137 59.860 58.541 59.168 57.716 57.519 56.766	1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87	B B B B B	000000
MOTA ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728	CG2 C O N CA CB OG	VAL B VAL B SER B SER B SER B SER B	533 533 533 534 534 534 534	20.199 21.168 19.132 19.148 18.140 16.984 15.873	61.925 63.777 60.822 59.758 61.164 60.284	61.137 59.860 58.541 59.168 57.716 57.519	1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24	B B B B B	00000
ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729	CG2 C O N CA CB	VAL B VAL B SER B SER B SER B	533 533 533 534 534 534 534 534	20.199 21.168 19.132 19.148 18.140 16.984 15.873	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320	1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08	B B B B B B	00000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728	CG2 C O N CA CB OG C	VAL B VAL B SER B	533 533 534 534 534 534 534 534 534	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19	B B B B B B	и. Ссоиссосой
ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730	CG2 C O N CA CB OG C	VAL B VAL B SER B LEU B LEU B	533 533 534 534 534 534 534 534 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.23	B B B B B B B	CCONCCOCONC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733	CG2 C O N CA CB O C O CA CB	VAL B VAL B SER B SER B SER B SER B SER B LEU B LEU B LEU B	533 533 534 534 534 534 534 534 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69	B B B B B B B B B	ссоиссосойсс
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733	CG2 C O N CA CB OC O N CA CB CC	VAL B VAL B SER B SER B SER B SER B SER B LEU B LEU B LEU B	533 533 534 534 534 534 534 534 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69 8.04	B B B B B B B B B B B B B	CCONCCCCONCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735	CG2 C O N CA CB OC CA CB CCA CCB CCD1	VAL B VAL B SER B SER B SER B SER B SER B LEU B LEU B LEU B LEU B	533 533 534 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.23 7.69 8.04 7.50	B B B B B B B B B	ссоиссосойсс
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735	CG2 C O N CA CB OG C O CA CB CD1 CD2	VAL B VAL B VAL B SER B SER B SER B SER B LEU B LEU B LEU B LEU B LEU B	533 533 534 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773 19.656	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693 60.546	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957 53.224	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69 8.04 7.50 6.73	B B B B B B B B B B B B B B B B B B B	CCONCCCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737	CG2 C O N CA CB OC CCA CCB CCD CCD CD2 CCD	VAL B VAL B SER B SER B SER B SER B SER B LEU B LEU B LEU B LEU B LEU B	533 533 534 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773 19.656 19.225	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693 60.546 57.159	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957 53.224 55.698	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.23 7.69 8.04 7.50	B B B B B B B B B B B B B B B B B B B	CCONCCCCCCCCCCCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737	CG2 C O N CA CB OC CA CB CCD1 CD2 C O	VAL B VAL B VAL B SER B SER B SER B SER B LEU B LEU B LEU B LEU B LEU B LEU B	533 533 534 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773 19.656	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693 60.546	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957 53.224 55.698 55.660 56.484	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69 8.04 7.50 6.73 7.12 6.71 7.30	B B B B B B B B B B B B B B B B B B B	поопособранового
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739	CG2 C O N CA CB OG C O N CA CB CD2 C O N	VAL B VAL B VAL B SER B SER B SER B SER B LEU B	533 533 534 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773 19.656 19.225 19.299	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693 60.546 57.159 55.930 57.899 57.265	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957 53.224 55.698 55.660 56.484 57.391	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69 8.04 7.50 6.73 7.12 6.71 7.30 6.15	B B B B B B B B B B B B B B B B B B B	ссоиссосойссссссис
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740	CG2 C O N CA CB OC CA CB CCD1 CD2 C O	VAL B VAL B VAL B SER B SER B SER B SER B LEU B LEU B LEU B LEU B LEU B LEU B	533 533 533 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773 19.656 19.225 19.299 19.998 20.942 21.789	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693 60.546 57.159 55.930 57.899 57.265 58.292	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957 53.224 55.698 55.660 56.484 57.391 58.145	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69 8.04 7.50 6.73 7.12 6.71 7.30 6.15 2.76	888888888888888888888888888888888888888	CCONCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739	CG2 C O N CA CB OC CA CB CC CD1 CD2 C O N CA	VAL B VAL B VAL B SER B SER B SER B SER B LEU B	533 533 533 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773 19.656 19.225 19.299 19.998 20.942 21.789 23.077	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693 60.546 57.159 57.899 57.265 58.292 58.872	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957 53.224 55.698 56.484 57.391 58.145 57.571	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69 8.04 7.50 6.73 7.12 6.71 7.30 6.15 0.00	B B B B B B B B B B B B B B B B B B B	CCONCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741	CG2 C O N CA CB CC O N CA CB CC CD1 CC CD2 CC CD1 CC CD1	VAL B VAL B VAL B SER B SER B SER B SER B LEU B	533 533 533 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773 19.656 19.225 19.299 19.998 20.942 21.789 23.077 23.709	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693 60.546 57.159 55.930 57.899 57.265 58.292 58.872 59.740	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957 53.224 55.698 55.660 56.484 57.391 58.145 57.571 58.652	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69 8.04 7.50 6.73 7.12 6.71 7.30 6.15 0.00	888888888888888888888888888888888888888	ссоиссосойссссссоиссс
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742	CG2 C O N CA CB CC O N CA CB CC CD1 CC CD2 CC CD1 CC CD1	VAL B VAL B VAL B SER B SER B SER B SER B LEU B	533 533 533 534 534 534 534 535 535 535	20.199 21.168 19.132 19.148 18.140 16.984 15.873 15.270 17.347 17.177 17.842 18.221 18.816 20.061 20.773 19.656 19.225 19.299 19.998 20.942 21.789 23.077	61.925 63.777 60.822 59.758 61.164 60.284 61.009 61.978 58.995 57.896 59.116 57.914 58.234 59.095 58.693 60.546 57.159 57.899 57.265 58.292 58.872	61.137 59.860 58.541 59.168 57.716 57.519 56.766 57.598 56.780 57.320 55.551 54.831 53.452 53.258 51.957 53.224 55.698 56.484 57.391 58.145 57.571	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0.89 0.44 6.57 6.85 6.99 6.87 4.90 2.12 7.24 6.08 7.19 7.69 8.04 7.50 6.73 7.12 6.71 7.30 6.15 0.00	B B B B B B B B B B B B B B B B B B B	CCONCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC

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ATOM	1745	С	LEU B	536	20.108	56.496	58.412	1.00	6.88 7.30	B B	C 0
ATOM	1746	0	LEU B	536	20.263	55.287	58.574 59.091	1.00	6.66	В	N
MOTA	1747		GLU B	537	19.211 18.382	57.203 56.562	60.099	1.00	7.24	В	С
ATOM	1748 1749	CA CB	GLU B	537 537	17.321	57.536	60.636	1.00	7.42	В	C
ATOM ATOM	1750	CG	GLU B	537	16.561	56.956	61.836	1.00	4.99	B B	C
ATOM	1751	CD	GLU B	537	15.238	57.632	62.131 62.729	1.00	3.13 1.34	В	ŏ
MOTA	1752	OE1	GLU B	537	15.251 14.187	58.728 57.058	61.767	1.00	3.54	В	0
MOTA	1753	OE2	GLU B		17.683	55.273	59.621	1.00	7.55	В	C
ATOM ATOM	1754 1755	С 0	GLU B		17.593	54.295	60.376	1.00	7.59	В	Ŋ
ATOM	1756	N	VAL B		17.201	55.269	58.377	1.00	6.83 5.38	B B	C
ATOM	1757	CA	VAL B		16.481	54.117 54.577	57.831 56.700	1.00	5.91	В	Ċ
MOTA	1758	CB	VAL B		15.534 14.862	53.378	56.058	1.00	3.94	В	C
ATOM	1759 1760	CG1 CG2	VAL B		14.477	55.541	57.270	1.00	5.56	В	C
ATOM ATOM	1761	C	VAL B		17.341	52.941	57.350	1.00	4.64	B B	C 0
ATOM	1762	0	VAL B		16.838	51.846	57.126	1.00	2.68 5.06	В	N
ATOM	1763	N	ILE B		18.639 19.559	53.171 52.105	57.188 56.785	1.00	5.67	В	C
ATOM	1764	CA	ILE B		20.529	52.536	55.646	1.00	6.10	В	C
ATOM	1765 1766	CB CG2	ILE B		19.744	52.930	54.416	1.00	6.78	В	C
MOTA	1767	CG1	ILE B		21.426	53.682	56.111	1.00	3.64 0.00	B B	C
ATOM	1768	CD1	ILE B		22.485	54.029 51.735	55.119 58.006	1.00 1.00	5.53	В	Č
MOTA	1769	C	ILE B	_	20.397 21.570	51.735	57.899	1.00	6.20	В	0
MOTA	1770 1771	O N	ILE B		19.779	51.838	59.173	1.00	5.03	В	N
ATOM ATOM	1772	CA	GLU B		20.441	51.511	60.417	1.00	5.17	B B	C
ATOM	1773	CB	GLU B	540	20.053	52.521	61.495 62.103	1.00	6.83 10.34	В	č
ATOM	1774	CG	GLU B		21.225 21.970	53.264 54.107	61.093		11.52	В	С
ATOM	1775	CD OE1	GLU B		22.905	54.838	61.491		12.12	В	0
atom atom	1776 1777	OE2	GLU B		21.621	54.034	59.899	1.00	12.58	B B	O C
MOTA	1778	C	GLU B		19.981	50.113	60.816 61.542	1.00	4.17 3.92	В	Ö
MOTA	1779	0	GLU E		19.001 20.687	49.964 49.071	60.341	1.00	3.62	В	Ŋ
MOTA	1780	И	PRO E	3 541 3 541	20.007	49.119	59.725	1.00	3.05	В	C
MOTA MOTA	1781 1782	CD CA		3 541	20.330	47.694	60.660	1.00	2.38	В	C
ATOM	1783	CB	PRO E		21.687	47.005	60.651	1.00	2.74 2.55	B B	Č
MOTA	1784	CG	PRO E		22.346	47.659 47.576	59.491 61.986	1.00	1.31	В	Č
MOTA	1785	C		3 541	19.592 19.919	48.273	62.943	1.00	0.84	В	0
MOTA	1786 1787	N O	PRO E		18.595	46.694	62.031	1.00	0.24	В	N
ATOM ATOM	1788	CA	GLU I		17.793	46.501	63.235	1.00	1.23 2.38	B B	C
ATOM	1789	CB	GLU F		16.327	46.202 46.947	62.859 63.711	1.00	4.01	В	Č
ATOM	1790	CG	GLU F		15.260 13.815	46.670	63.257	1.00	3.74	В	C
MOTA	1791 1792	CD OE1	GLU I		13.541	46.787	62.044	1.00	4.61	В	0
atom Atom	1793	OE2		_	12.953	46.346	64.109	1.00	2.28 2.07	B B	O C
ATOM	1794	С	GLU I		18.322	45.402 44.335	64.153 63.707	1.00	1.60	B	Õ
MOTA	1795	0	GLU I		18.720 18.333	45.709	65.443	1.00	3.47	В	N
ATOM	1796 1797	N CA	VAL I	_	18.758	44.810	66.506	1.00	3.43	В	C
MOTA MOTA	1798	CB		B 543	17.682	44.772	67.610	1.00	2.75 3.84	B B	C
ATOM	1799	CG1	VAL	B 543	17.530	46.138	68.249 67.007	1.00	3.84	В	ç
MOTA	1800	CG2			16.345 19.005	44.374	66.076	1.00	3.09	В	С
ATOM	1801 1802	C		B 543 B 543	18.080	42.696	65.650	1.00	3.18	В	0
ATOM ATOM	1802	N		B 544	20.249	42.913	66.182	1.00	2.08	B B	N C
ATOM	1804	CA	LEU :		20.575	41.532	65.840 65.723	1.00	2.37 3.93	В	Č
ATOM	1805	CB	LEU	-	22.088 22.866	41.310 41.683	64.454	1.00	5.41	В	C
MOTA	1806	CD		B 544 B 544	24.257	41.083	64.523	1.00		В	C
MOTA MOTA	1807 1808			B 544	22.164	41.155	63.225			В	C
ATOM	1809		LEU	B 544	20.050	40.704		1.00		B B	Ö
ATOM	1810	0		B 544	20.542	40.808 39.896				В	N
ATOM	1811			B 545 B 545	19.031 18.443					B'	C
MOTA	1812			B 545	16.994	38.659	67.421	1.00		В	C
MOTA MOTA	1813 1814		TYR	B 5A5	15.969	.39.309	68.325			B B	C
ATOM	1815	CD	1 TYR	B 545	15.987	39.099				В	C
ATOM	1816	CE		B 545	15.028	39.718 40.151				В	С
ATOM	1817			B 545 B 545	14.980 14.019		68.643	1.00	0.00	В	C
MOTA	1818 1819			B 545	14.050	40.549	70.003	1.00		В	C
MOTA ATOM	1820		TYR	B 545	13.091					B B	C
MOTA	1821	. C	TYR	B 545	19.332					В	0
MOTA	1822			B 545	19.282 20.174					В	N
MOTA	1823			B 546 B 546	21.086		69.151	1.00	4.97	В	C
MOTA MOTA	1824 1825			B 546	22.046			1.00	5.14	В	С
ULAN	1020										

							CO 400	1.00	5.45	В	C
ATOM	1826	C	ALA B	546	20.298	35.516	69.482		5.06	В	ō
ATOM	1827	0	ALA B	546	19.819	34.815	68.580	1.00			N
ATOM	1828		GLY B	547	20.149	35.244	70.772	1.00	5.37	В	
ATOM	1829	CA		547	19.432	34.060	71.190	1.00	5.08	В	C
	1830	C	-	547	20,316	33.339	72.161	1.00	4.07	В	C
ATOM			-	547	21.087	32.474	71.781	1.00	2.80	В	0
MOTA	1831	0		548	20.214	33.731	73.421	1.00	5.82	В	N
ATOM	1832	N			21.013	33.143	74.478	1.00	7.20	В	C
MOTA	1833	CA		548		_	75.574	1.00	7.73	В	C
ATOM	1834	CB		548	21.259	34.175		1.00	B.10	В	C
ATOM	1835	CG	TYR B	548	22.370	33.825	76.535			В	Č
ATOM	1836	CD1	TYR B	548	22.171	33.910	77.910	1.00	7.45		Č
ATOM	1837	CE1	TYR B	548	23.206	33.662	78.800	1.00	7.36	В	
ATOM	1838	CD2		548	23.639	33.474	76.073	1.00	7.72	В	C
	1839	CE2		548	24.681	33.225	76.958	1.00	6.30	В	C
ATOM				548	24.454	33.323	78.317	1.00	6.72	В	C
ATOM	1840	CZ		548	25.472	33.093	79.204	1.00	5.53	В	0
MOTA	1841	OH	TYR B		20.228	31.973	75.037	1.00	7.93	В	C
ATOM	1842	С		548	_	32.070	75.225	1.00	8.67	В	0
MOTA	1843	0	TYR B	548	19.011		75.290	1.00	7.52	В	N
ATOM	1844	И		549	20.921	30.867	75.813	1.00	6.89	В	С
MOTA	1845	CA	ASP B	549	20.269	29.677			7.66	B	C
ATOM	1846	CB	ASP B	549	21.308	28.656	76.292	1.00		В	Č
ATOM	1847	CG	ASP B	549	22.073	27.999	75.139	1.00	6.01	В	ŏ
ATOM	1848	OD1	ASP B	549	23.125	27.385	75.407	1.00	4.80		
ATOM	1849	OD2	ASP B	549	21.623	28.086	73.976	1.00	6.15	В	0
	1850	C			19.396	30.113	76.956	1.00	6.54	В	C
ATOM			ASP B	549	18.253	29.684	77.067	1.00	5.87	В	0
ATOM	1851	0		-	19.953	30.986	77.792	1.00	7.16	В	N
ATOM	1852	N	SER B	550 550	19.252	31.542	78.957	1.00	8.36	В	С
ATOM	1853	CA	SER B	550		32.442	78.482	1.00	9.58	В	C
ATOM	1854	CB	SER B	550	18.098		77.320		10.64	В	0
ATOM	1855	OG	SER B	550	18.452	33.176			8.38	В	C
ATOM	1856	C	SER B	550	18.701	30.439	79.887	1.00	7.63	В	ō
ATOM	1857	0	SER B	550	17.636	30.577	80.498	1.00		В	N
ATOM	1858	N	SER B	551	19.445	29.348	79.991	1.00	8.02		C
ATOM	1859	CA	SER B	551	19.029	28.227	80.808	1.00	7.30	В	
MOTA	1860	CB	SER B	551	18.385	27.153	79.907	1.00	7.81	В	C
	1861	OG	SER B	551	17.257	27.649	79.197	1.00	7.28	В	0
MOTA	1862	C	SER B	551	20.230	27.654	81.573	1.00	6.56	В	C
MOTA			SER B	551	20.089	27.165	82.696	1.00	6.94	В	0
ATOM	1863	0		552	21.405	27.721	80.950	1.00	5.24	В	N
ATOM	1864	N	VAL B		22.650	27.231	81.540	1.00	4.44	В	С
ATOM	1865	CA	VAL B	552	23.646	26.778	80.438	1.00	3.65	В	С
MOTA	1866	CB	VAL B	552			80.968	1.00	1.31	В	C
ATOM	1867	CG1		552	24.553	25.672		1.00	2.44	В	С
MOTA	1868	CG2		552	22.886	26.314	79.203		4.09	В	С
ATOM	1869	C	VAL B	552	23.279	28.392	82.318	1.00	4.59	В	Ö
ATOM	1870	0	VAL B	552	23.518	29.463	81.745	1.00			N
ATOM	1871	N	PRO B	553	23.574	28.198	83.621	1.00	3.98	В	C
ATOM	1872	CD	PRO B	553	23.745	26.914	84.323	1.00	3.81	В	
ATOM	1873	CA		553	24.171	29.289	84.398	1.00	4.58	В	C
	1874	CB	PRO B		24.828	28.564	85.566	1.00	5.21	В	C
ATOM		CG	PRO B		23.972	27.358	85.744	1.00	3.58	В	С
MOTA	1875		PRO B		25.177	30.014	83.513	1.00	5.01	В	C
ATOM	1876	С			25.828	29.393	82.672	1.00	6.50	В	Ο.
ATOM	1877	0			25.309	31.320	83.692	1.00	5.82	В	N
ATOM	1878	N	ASP B		26.205	32.083	82.839	1.00	7.79	В	С
ATOM	1879	CA	ASP B			33.586	83.044	1.00	10.98	В	С
ATOM	1880	CB	ASP B		26.000		81.734	1.00	11.80	В	С
ATOM	1881	CG	ASP B		25.733	34.316		1.00	13.14	В	0
MOTA	1882	OD1			26.552	34.158	80.803 81.639	1.00	12.43	В	Ö
MOTA	1883	OD2			24.710	35.039			7.81	В	č
ATOM	1884	C	ASP B		27.675	31.747	82.964	1.00	8.13	В	ŏ
ATOM	1885	0	ASP B	554	28.431	32.417	83.668	1.00		В	N
ATOM	1886	N	SER B		28.069	30.696	82.257	1.00	7.82	В	C
ATOM	1887	CA	SER B	555	29.448	30.252	82.232	1.00	7.61		
ATOM	1888	CB	SER B		29.507	28.794	81.782	1.00	5.61	В	C
ATOM	1889	OG	SER B		28.828	28.617	80.555	1.00	2.11	В	0
	1890	Ç	SER B		30.224	31.156	81.260	1.00	8.63	В	C
ATOM		Ö	SER B		29.946	31.199	80.051	1.00	7.85	В	0
MOTA	1891		THR B		31.185	31.888	81.820	1.00	8.68	В	N
ATOM	1892	N			32.040	32.825	81.091	1.00	7.13	В	С
ATOM	1893	CA	THR B		33.186	33.309		1.00	6.02	В	
MOTA	1894	CB	THR B			33.616	81.230	1.00			
ATOM ::		OG1			34.346	32.225	83.030	1.00		В	
MOTA	1896	CG2			33.538		79.769	1.00	6.09	В	
MOTA	1897	C	THR B		32.626	32.311				В	
ATOM	1898	0	THR B		33.458	32.974		1.00			
ATOM	1899	N	TRP B	557	32.221	31.124		1.00		В	
ATOM	1900	CA	TRP B		32.702	30.603		1.00		В	
MOTA	1901	CB	TRP B		33.181	29.139		1.00	4.26	В	
	1902	CG	TRP B		32.130	28.109		1.00		В	
MOTA		CD2			31,217			1.00	1.31	В	
ATOM	1903			557	30.435	26.577		1.00	_	В	
MOTA	1904	CE2	-		30.980	27.583		1.00	_	В	
ATOM	1905		TRP B		31.874	27.583	79.748	1.00	_	В	
MOTA	1906	CD1	TRP B	5 55 /	3I.8/4	21.303		2.00		_	

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PCT/EP03/04900 WO 03/090666

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ATOM	1907	NE1 I	RP B 5		30.858	26.662	, , , , , , ,	1.00 1.00	0.74	B B	C
ATOM	1908			557	29.431 29.976	25.785 26.793	75.670	1.00	0.00	В	C
MOTA	1909	_		557 557	29.370	25.908	76.452	1.00	0.00	В	C C
ATOM	1910 1911			557	31.518	30.699	77.119	1.00	5.06 4.78	B B	0
ATOM ATOM	1912	_		557	31.673	30.894	75.910	1.00	5.26	В	N
ATOM	1913	N F	ARG B	558	30.331	30.570 30.652	77.703 76.951	1.00	4.81	В	C
ATOM	1914			558	29.095 27.922	30.183	77.822	1.00	5.22	В	C
MOTA	1915			558 558	26.563	30.206	77.123	1.00	6.16	B B	C C
MOTA	1916 1917			558	25.538	29.316	77.807	1.00	9.34 14.42	В	N
MOTA MOTA	1918	NE 1	ARG B	558	25.668	27.923	77.391 77.824		16.80	В	C
MOTA	1919		ARG B	558	26.611 27.518	27.089 27.499	78.698		18.82	В	N
MOTA	1920	•	ARG B	558 558	26.648	25.838	77.388		18.27	В	N C
ATOM	1921 1922			558	28.906	32.102	76.501	1.00	4.38 3.53	B B	0
ATOM ATOM	1923		ARG B	558	28.494	32.371	75.370 77.383	1.00	3.91	В	N
ATOM	1924			559	29,225 29.096	33.042 34.443	77.021	1.00	3.73	В	C
ATOM	1925			559 559	29.361	35.355	78.246	1.00	2.17	В	C
ATOM	1926 1927			559	30.753	35.162	78.771	1.00	2.42 2.54	B B	Ċ
ATOM ATOM	1928			559	29.096	36.801	77.863 77.419	1.00 1.00	2.87	В	C
ATOM	1929			559	27.658 30.059	37.053 34.739	75.855	1.00	3.83	В	С
ATOM	1930			559 559	29.631	34.860	74.704	1.00	5.20	В	O N
MOTA	1931 1932	_	ILE B MET B	560	31.352	34.825	76.147	1.00	2.87 1.24	B B	C
MOTA MOTA	1933		MET B	560	32.363	35.063	75.128 75.639	1.00 1.00	1.29	В	c
ATOM	1934	CB	MET B		33.721 34.211	34.619 35.458	76.789	1.00	2.39	В	C
MOTA	1935	CG	MET B	560 560	34.211	37.166	76.285	1.00	4.27	В	S
ATOM	1936 1937	SD CE	MET B	560 560	35.496	37.085	74.934	1.00	4.41	B B	C
atom atom	1938	C	MET B	560	32.037	34.311	73.852	1.00	1.16 1.87	В	ŏ
ATOM	1939	0	MET B	560	32.311	34.780 33.134	72.750 74.006	1.00	1.13	В	N
MOTA	1940	N	THR B	561 561	31.450 31.076		72.853	1.00	0.95	В	C
ATOM	1941 1942	CA CB	THR B		30.733	30.877	73.302	1.00	0.00 0.00	B B	C O
MOTA MOTA	1942	OG1	THR B		31.953		73.595 72.225	1.00	0.00	B	Ċ
ATOM	1944	CG2	THR B	561	29.941 29.881		72.129	1.00	1.92	В	C
MOTA	1945	C	THR B	561 561	29.908		70.910	1.00	0.00	В	N O
MOTA	1946 1947	N O	THR B		28.835	33.259	72.889	1.00	3.03 4.11	B B	C
ATOM ATOM	1948	CA	THR B	562	27.667			1.00	2.50	В	C
ATOM	1949	CB	THR B		26.582 26.275			1.00	2.96	В	0
MOTA	1950	OG1 CG2	THR B		25.323	34.623	72.751	1.00	4.08	B B	C
MOTA MOTA	1951 1952	CGZ	THR B		28.091	35.209		1.00	4.28 5.63	В	ŏ
MOTA	1953	Ö	THR B	562	27.543			1.00		В	N
MOTA	1954		LEU B		29.077 29.585			1.00	3.48	В	C
ATOM	1955		LEU B		30.657	7 37.709	72.742	1.00		B B	C C
MOTA MOTA	1956 1957		LEU B		30.243			1.00		В	č
ATOM	1958	CD1			31.482			1.00		В	С
MOTA	1959				29.132 30.175			1.00	4.04	В	C
MOTA	1960 1961		LEU E		29.63	37.452	69.446			B B	N
ATOM ATOM	1962		ASN E	564	31.28					В	C
ATOM	1963	CA	ASN E	_	31.920 32.91		·			В	C
ATOM	1964		ASN E	3 564 3 564	33.63		68.009	1.00		В	C O
MOTA	1965 1966				33.19	8 33.488				B B	N
ATOM ATOM	1967	-	ASN E	3 564	34.75					В	C
ATOM	1968	3 C		3 564	30.85 31.00					В	0
MOTA	1969			3 564 3 565	29.77		6 68.454	1.00		В	N
MOTA	1970 1971			B 565	28.66	2 34.53	7 67.587			B B	C
MOTA MOTA	1972			В 565	27.59	9 33.78				В	č
ATOM	197		MET 1	в 565	28.05			_		В	S C
ATOM	197			B 565	27.53 26.60			1.0	5.15	В	C
MOTA	1979			В 565 В 565	28.03	4 35.78	8 .66.993		06.14	В	Ċ
MOTA	197 197			B 565	27.85	4 35.89	8 65.78		0 · 8.29 0 · 5.06	B B	N
ATOM	197		LEU	B 566	27.68			_		В	C
ATOM	197	9 CA		B 566	27.08 26.60			2 1.0	0 4.31	В	C
MOTA	198			B 566 B 566	25.65	6 40.01	8 68.30	9 1.0		В	C
MOTA				B 566	24.41	39.57	9 67.57			B B	C
ATOM ATOM			2 LEU	B 566	25.26			_		В	С
ATOM		_	LEU	в 566	28.22				0 5.32	В	0
ATOM	198			B 566	28.07 29.30	·	8 66.63	0 1.0	0 2.58	В	и С
ATOM				B 567 B 567	30.5			5 1.0	0 1.89	В	C
MOTA	198	, CA		•							

					30.265	39.031	64.564	1.00	1.02	В	С
ATOM			GLY B		29.661	40.063	64.345	1.00	0.00	В	0
MOTA	1989	_	GLY B		30.740	38.260	63.602	1.00	1.65	В	N
MOTA			GLY B			38.623	62.213	1.00	2.01	В	C
ATOM	1991		GLY B		30,573	38.957	61.832	1.00	2.92	В	C
ATOM	1992	-	GLY B		29.151	39.563	60.785	1.00	4.64	В	0
ATOM	1993	-	GLY B		28.912		62.667	1.00	3.12	В	N
ATOM	1994	N	ARG B		28.199	38.561	62.364	1.00	4.28	В	С
MOTA	1995	CA	ARG B		26.799	38.840		1.00	4.60	В	С
ATOM	1996	CB	ARG B	569	25.874	38.031	63.292	1.00	6.54	В	С
ATOM	1997	CG	ARG B	569	24.388	38.008	62.879		6.72	В	C
ATOM	1998	CD	ARG E	569	23.552	37.402	63.995	1.00	4.80	В	N
ATOM	1999	NE	ARG E	3 569	22.114	37.561	63.805	1.00		В	C
ATOM	2000	CZ	ARG E		21.226	37.388	64.780	1.00	5.50		N
	2001		ARG E		21.637	37.050	65.993	1.00	5.06	В	N
ATOM	2002		ARG E		19.933	37.568	64.555	1.00	4.89	В	
ATOM		C	ARG E	_	26.570	40.347	62.525	1.00	3.95	В	C
ATOM	2003	0	ARG E		25.633	40.915	61.973	1.00	1.68	В	0
ATOM	2004		GLN E		27.440	40.980	63.299	1.00	3.79	В	N
ATOM	2005	N			27.368	42.402	63.506	1.00	2.90	В	C
ATOM	2006	CA			27.901	42.768	64.880	1.00	2.56	В	C
ATOM	2007	CB		3 570	27.054	42.267	66.003	1.00	4.22	В	C
ATOM	2008	CG	_	3 570	27.475	42.822	67.343	1.00	4.22	В	С
ATOM	2009	CD		3 570		44.036	67.527	1.00	4.93	В	0
MOTA	2010	OE1	•	3 570	27.542	41.936	68.291	1.00	4.56	В	N
ATOM	2011	NE2	GLN I	3 570	27.760		62.429	1.00	2.97	В	C
ATOM	2012	С	GLN I	3 570	28.250	43.000	62.063	1.00	3.80	B	0
ATOM	2013	0	GLN I	в 570	28.100	44.163		1.00	3.92	B	N
ATOM	2014	N	VAL I	в 571	29.168	42.186	61.919		4.74	В	C
ATOM	2015	CA	VAL I	в 571	30.093	42.612	60.868	1.00 1.00	5.05	В	Č
ATOM	2016	CB	VAL 1	В 571	31.305	41.643	60.740		5.55	В	Č
ATOM	2017	CG1	VAL I	В 571	32.082	41.954	59.489	1.00		В	Ċ
ATOM	2018	CG2		B 571	32.223	41.775	61.943	1.00	5.45		C
ATOM	2019	C	VAL		29.338	42.622	59.551	1.00	4.96	B B	0
	2020	Õ	VAL		29.234	43.640	58.867	1.00	4.85		N
ATOM	2021	N	ILE	-	28.809	41.466	59.201	1.00	3.73	В	
ATOM		CA	ILE		28.049	41.331	57.986	1.00	2.14	В	C
ATOM	2022	CB		в 572	27.394	39.944	57.962	1.00	0.81	В	C
MOTA	2023		ILE	-	28.461	38.877	57.880	1.00	0.06	В	C
ATOM	2024	CG2			26.635	39.712	59.260	1.00	0.42	В	C
ATOM	2025	CGl			26.086	38.306	59.405	1.00	0.78	В	C
MOTA	2026	CD1	ILE	_	27.002	42.458	57.906	1.00	1.72	В	С
ATOM	2027	C		B 572	26.860	43.096	56.863	1.00	2.78	В	0
MOTA	2028	0		B 572	26.296	42.712	59.010	1.00	0.54	В	N
ATOM	2029	N		В 573		43.762	59.058	1.00	0.88	В	С
ATOM	2030	CA	ALA		25.275	43.777	60.394	1.00	2.06	В	C
ATOM	2031	CB		B 573	24.590	45.093	58.830	1.00	2.33	В	C
ATOM	2032	C		В 573	25.921	45.793	57.876	1.00	3.65	В	0
MOTA	2033	0	ALA		25.596		59.734	1.00	3.89	В	N
ATOM	2034	N	ALA		26.829	45.442	59.646	1.00	4.51	В	С
ATOM	2035	CA		B 574	27.568	46.693	60.550	1.00	3.04	В	C
ATOM	2036	CB	ALA	B 574	28.787	46.636	58.196	1.00	4.41	В	¢
MOTA	2037	C	ALA	B 574	27.992	46.943		1.00	3.54	В	0
ATOM	2038	0	ALA	B 574	27.498	47.863	57.550		3.88	В	N
ATOM	2039	N	LAV	B 575	28.889	46.108	57.684	1.00	4.05	. В	C
ATOM	2040	CA	VAL	B 575	29.371	46.246	56.313	1.00	2.26	В	C
ATOM	2041	CB	VAL	B 575	30.049	44.961	55.827	1.00		В	č
ATOM	2042	CG1	VAL	B 575	30.640		54.455	1.00	0.00	В	č
ATOM	2043	CG2			31.121	44.557	56.800	1.00	1.35		C
ATOM	2044	C	VAL		28.315	46.620	55.272	1.00	5.72	B B	Ö
ATOM	2045	ő		В 575	28.495	47.583	54.529	1.00	6.30	B	N
	2046	N		B 576	27.220		55.204	1.00	6.83		
ATOM	2047	CA		B 576	26.176	46.148	54.215	1.00	6.98	В	C
MOTA	2047	CB		B 576	25.070	45.089		1.00	8.29	В	C
MOTA	2049	CG		B 576	24.060	45.198	53.102	1.00	9.99	В	
MOTA	2050	CD		B 576	22.645		53.534		10.63	В	C
ATOM	2051	CE		В 576	21.998		54.458	1.00	10.34	В	C
ATOM		NZ		B 576	21.917		53.831	1.00	9.62	В	N
MOTA	2052	C		B 576	25.565			1.00	5.53	В	C
MOTA	2053			B 576	24.880			1.00	7.34	В	0
ATOM	2054	0		B 577	25.786			1.00	3.30	В	N
ATOM	2055			B 577	25.288			1.00	1.78	В	C
ATOM	2056			_	25.256		_				C
MOTA	- 2057			B 577	25.259				1.72	В	C
ATOM	2058			B 577	26.432					В	С
ATOM	2059		•						0.15	В	С
ATOM	2060			B 577	26.080					В	С
ATOM	2061			B 577	27.752					В	С
ATOM	2062			B 577	24.262					В	N
ATOM	2063			B 577	24.748					В	С
ATOM	2064	CZ		B 577	27.004					В	C
ATOM	2065	CZ		B 577	28.666					В	C
MOTA	2066		2 TRP	B 577	28.287			_		В	Ċ
ATOM	2067			B 577	26.332					В	ō
ATOM	2068			в 577	26.013	51.340	55.010	1.00	1.07	7	-

MOTA	2069	N .	ALA B	578	27.589	49.936	55.800		2.03	B B	N C
ATOM	2070	CA .	ALA B	578	28.736	50.737	55.402 55.778	1.00	2.60 1.59	В	C
ATOM	2071	•-	ALA B		30.005 28.742	50.009 51.072	53.776	1.00	3.77	В	С
MOTA	2072	•	ALA B ALA B		29.472	51.965	53.476	1.00	1.91	В	0
ATOM ATOM	2073 2074		LYS B		27.922	50.366	53.124	1.00	5.03 5.31	B B	N C
ATOM	2075	CA	LYS B	579	27.834	50.593	51.675 50.936	1.00	3.86	В	Č
MOTA	2076		LYS B		27.680 28.997	49.262 48.566	50.650	1.00	5.98	B	С
MOTA	2077		LYS B LYS B	579 579	28.788	47.148	50.146	1.00	7.52	В	C
MOTA MOTA	2078 2079		LYS B		28.199	46.251	51.239	1.00	8.30	B B	C N
ATOM	2080	NZ	LYS B	579	29.106	46.143	52.421 51.255	1.00	8.68 4.99	В	Ċ
MOTA	2081		LYS B		26.707 26.700	51.534 52.049	50.135	1.00	5.31	В	0
ATOM	2082	O N	LYS B		25.756	51.758	52.152	1.00	4.36	В	N
MOTA MOTA	2083 2084	CA	ALA B		24.643	52.638	51.862	1.00	4.35 5.65	B B	C C
ATOM	2085	CB	ALA B	580	23.398	52.083 54.052	52.483 52.382	1.00	4.33	В	Č
ATOM	2086	C	ALA B		24.923 24.046	54.052	52.374	1.00	5.33	В	0
MOTA	2087 2088	O N	ALA E		26.149	54.278	52.851	1.00	3.84	В	ห C
atom atom	2089	CA	ILE E		26.572	55.585	53.341	1.00	3.04 0.00	B B	C
ATOM	2090	CB	ILE E		27.966	55.530 56.839	53.999 54.669	1.00 1.00	0.00	В	Č
MOTA	2091	CG2		581 581	28.272 28.043	54.385	55.006	1.00	0.00	В	C
ATOM	2092 2093	CG1	ILE E		26.965	54.404	56.055	1.00	0.00	В	C C
MOTA MOTA	2093	C	ILE E		26.705	56.403	52.070	1.00 1.00	3.79 3.83	B B	Ö
ATOM	2095	0		3 581	27.506 25.904	56.070 57.463	51.202 51.923	1.00	3.55	B	N
ATOM	2096	N	PRO I	3 582 3 582	24.840	57.943	52.818	1.00	3.41	В	C
ATOM ATOM	2097 2098	CD CA	PRO E		25.975	58.298	50.728	1.00	3.83	B B	C C
MOTA	2099	CB	PRO I		25.379	59.606	51.212 52.024	1.00	3.68 3.46	В	Č
MOTA	2100	CG	PRO I		24.229 27.380	59.105 58.444	50.166	1.00	3.53	В	С
MOTA	2101	C O	PRO I	3 582 3 582	28.297	58.926	50.835	1.00	1.92	В	0
ATOM ATOM	2102 2103	И	GLY I	-	27.539	57.999	48.928	1.00	3.25 4.67	B B	N C
ATOM	2104	CA	GLY 1	B 583	28.828	58.084	48.276 48.713	1.00 1.00	5.57	В	č
MOTA	2105	C	GLY I		29.856 31.038	57.058 57.240	48.434	1.00	5.53	В	0
ATOM	2106 2107	O N	GLY !	B 584	29.443	55.987	49.389	1.00	6.66	В	С И
ATOM ATOM	2108	CA	PHE	_	30.424	54.992	49.795	1.00 1.00	8.01 7.58	B B	C
MOTA	2109	CB		B 584	29.883	54.043 53.337	50.871 51.657	1.00	7.47	В	С
MOTA	2110	CG CD1		В 584 В 584	30.975 31.735	54.032	52.610	1.00	7.09	В	C
MOTA MOTA	2111 2112	CD2			31.281	51.997	51.409	1.00	6.32 6.01	B B	C
ATOM	2113	CE1	PHE		32.788	53.398 51.362	53.301 52.093	1.00	6.56	В	C
MOTA	2114	CE2	PHE		32.327 33.082	52.063	53.038	1.00	6.03	В	C
ATOM ATOM	2115 2116	CZ C		B 584	30.846	54.189	48.575	1.00	8.32	B B	C
ATOM	2117	Õ		B 584	32.039	53.992	48.353 47.784	1.00	9.53 8.64	В	Ŋ
ATOM	2118	N		B 585	29.883 30.221	53.723 52.968	46.580	1.00	9.15	В	C
MOTA	2119 2120	CA CB		B 585 B 585 .	28.990	52.696	45.723		11.66	В	C
ATOM ATOM	2121	CG	ARG		29.340	52.289			12.57 13.14	B B	C
ATOM	2122	CD		B 585	28.101 28.427	52.081 51.574	43.440 42.110	1.00	11.64	В	N
ATOM	2123		ARG ARG	в 585 в 585	27.545	51.003		1.00	11.86	В	C
ATOM ATOM	2124 2125			_	26.278	50.868	41.682		11.85 10.85	B B	N N
MOTA	2126	NH2	ARG	B 585	27.928	50.548 53.815		1.00 1.00	8.56	В	Ċ
MOTA	2127			В 585 В 585	31.171 32.071			1.00	9.94	В	0
MOTA MOTA	2128 2129			B 586	30.931	55.119	45.811	1.00	7.85	В	N C
ATOM	2130		ASN	B 586	31.732			1.00 1.00	7.35 7.83	B B	Č
MOTA	2131		ASN	B 586	31.336 29.975			1.00		В	С
ATOM	2132 2133	CG		B 586 B 586	29.909		44.273	1.00	6.99	В	0
ATOM ATOM	2134	ND:	2 ASN	B 586	28.891	57.300				B B	N C
ATOM	2135		ASN	B 586	33.233					· В	Ö
ATOM	2136		ASN	B 586	34.055 33.585					В	N C
MOTA	2137 2138			в 587 в 587	34.979	55.171	46.882	1.00	· 3.9 6	В	C .
ATOM ATOM	2139	'	LEU	B 587	35.186	55.130	48.401		0.01	B B	c
MOTA	2140) CG	LEU	B 587	35.207					В	C
ATOM	2141	CD	1 LEU	B 587	35.482 36.265				0.00	В	C
MOTA MOTA	2142 2143			в 587 в 587	35.488	53.872	46.291	1.00		B	C
ATOM	2144		LEU	B 587	34.853	52.833				B B	N
MOTA	2145	5 N	HIS	B 588	36.642 37.341					В	С
MOTA	2146			B 588 B 588	37.341		44.878	1.00	8.02		C
MOTA MOTA	2147 2148			B 588	39.615	52.300	43.998				C
MOTA	2149			в 588	39.287	51.14	43.380	1.00	10.15		•

					50 566	43.647	1.00 9	. 69	В	N
ATOM	2150 N	D1 HI	S B 588	30.55-				.29	В	C
ATOM		El HI		41.364		76.44		.23	В	N
ATOM			S B 588	40.392 37.190			1.00 5	.17	В	C
MOTA	2153 C			37.190	51.847	47.178		5.61	В	0
ATOM	2154 0			37.062	50.439			3.01	В	C N
MOTA	2155 N			36.B93	49.301	46.339	_ ,	2.25	B	C
ATOM		A LE		36.698	48.001	45.560	_	2.93	B B	C
ATOM		-	EU B 589 EU B 589	35.367	47.268			2.42	В	Č
ATOM		-	EU B 589	34.424	47.589	44.614	_ , , ,	1.75	В	č
ATOM		_	EU B 589	35.618	45.767	45.817	-	1.74 2.13	В	c
MOTA	2161 C		EU B 589	38.098	49.172	47.259		1.52	В	0
ATOM ATOM	2162		EU B 589	37.956	48.871	48.443 46.718		3.00	В	N
ATOM	2163 N		SP B 590	39.288	49.414	47.518		4.35	В	C
ATOM		A A	SP B 590	40.503	49.318 49.728	46.709		5.36	B	С
ATOM	2165		SP B 590	41.742	48.573	45.915		6.32	В	C
MOTA		_	SP B 590	42.349 41.753	48.150	44.901		6.81	В	0
MOTA			SP B 590	43.433	48.087	46.311		7.64	В	C
MOTA			SP B 590 SP B 590	40.355	50.237	48.712		4.59	B B	Ö
MOTA		_	SP B 590 SP B 590	41.149	50.181	49.645	_,	4.53	В	N
MOTA		-	SP B 591	39.338	51.094	48.655		5.18	В	Ĉ
MOTA		_	SP B 591	39.029	52.042	49.718	1.00	5.21 6.04	В	Č
MOTA			SP B 591	38.178	53.183	49.182	1.00 1.00	9.01	В	C
MOTA MOTA		•	SP B 591	38.957	54.448	48.962	1.00	9.57	В	0
ATOM			SP B 591	39.860	54.458	48.095 49.661	1.00	9.13	В	0
ATOM			SP B 591	38.649	55.442	50.763	1.00	4.32	В	С
MOTA		C A	ASP B 591	38.208	51.329 50.938	51.820	1.00	4.98	В	0
ATOM		_	ASP B 591	38.697 36.937	51.183	50.426	1.00	3.05	В	N
ATOM	22.0		LN B 592	35.930	50.544	51.255	1.00	2.86	В	C
MOTA			SLN B 592 SLN B 592	34.811	50.063	50.338	1.00	3.08	В	C C
ATOM			GLN B 592 GLN B 592	34.422	51.132	49.332	1.00	2.00	B B	C
ATOM			GLN B 592	33.203	50.777	48.532	1.00	1.04 0.67	В	ő
MOTA	2183 2184		GLN B 592	32.176	50.385	49.084	1.00 1.00	0.60	В	N
ATOM ATOM	2185		GLN B 592	33.300	50.927	47.222	1.00	2.87	В	С
ATOM	2186		GLN B 592	36.408	49.404	52.162 53.365	1.00	3.17	В	0
ATOM	2187		GLN B 592	36.138	49.403	51.595	1.00	2.27	В	N
ATOM	2188	N I	MET B 593	37.102		52.406	1.00	0.85	B	C
ATOM	2189		MET B 593	37.582 38.289			1.00	0.46	В	C
ATOM	2190		MET B 593	37.516			1.00	0.00	В	C
MOTA	2191		MET B 593 MET B 593	36.312			1.00	0.00	В	s C
MOTA	2192		MET B 593 MET B 593	36.060		48.905	1.00	0.00	B B	Ċ
ATOM	2193		MET B 593	38.569	47.917		1.00	0.54 0.38	В	ŏ
ATOM	2194 2195		MET B 593	38.626	47.499		1.00 1.00	0.30	В	N
MOTA	2196	_	THR B 594	39.339			1.00	0.90	В	С
ATOM ATOM	2197		THR B 594	40.329		53.837 53.074	1.00	2.47	В	С
ATOM	2198	CB	THR B 594	41.279				5.59	В	0
ATOM	2199	OG1	THR B 594	41.818 42.435			1.00	5.05	В	C
MOTA	2200	CG2	THR B 594	39.747			1.00	0.05	В	C O
ATOM	2201	C	THR B 594 THR B 594	40.286		56.091		0.00	B B	Ŋ
MOTA	2202	0	THR B 594 LEU B 595	38.651		54.751		0.00	В	Ç
MOTA	2203	n Ca	LEU B 595	38.038	3 51.794			0.00 0.00	В	č
MOTA	2204 2205	CB	LEU B 595	37.328	52.999			0.00	В	C
ATOM ATOM	2205	CG	LEU B 595	38.258				0.00	В	C
MOTA		CD1	LEU B 595	37.43				0.00	В	Ç
ATOM		CD2	LEU B 595	39.25	9 54.525 1 50.986			0.00	В	C
ATOM	-	C	LEU B 595	37.06 36.39			_	0.00	В	0
ATOM	2210	0	LEU B 595	36.96					В	N C
ATOM		Ŋ	LEU B 596 LEU B 596	36.07	-	5 57.021	1.00		В	C
MOTA		CA	LEU B 596	35.29		2 56.056			B B	Č
ATOM		CB CG	LEU B 596	33.94	9 48.55				В	Č
ATOM	-	CD1		33.47	4 48.11				В	C
ATOM ATOM		CD2		32.96					В	С
ATOM		C	LEU B 596	36.85	1 47.94	3 58.013 4 58.950			В	0
ATOM		Ō	LEU B 596	36.28	3 47.42				<u>B</u>	N
ATOM		N	GLN B 597 5	38.15	4 47.81 6 47.04				В	C
ATOM		ÇA	GLN B 597	38.97 40.19				0.00	В	C
ATOM	2221	CB	GLN B 597	39.92			3 1.00	0.00	В	C
ATOM	2222	CG	GLN B 597	41.14			5 1.00	0.00	B B	C
ATOM		CD OF1	GLN B 597 GLN B 597	41.17	5 45.45	8 54.63	2 1.00		В	И
ATOM				42.16	9 45.17	1 56.62			В	C
ATOM			GLN B 597	39.42	26 47.98				В	Ö
10ta 10ta			GLN B 597	40.02	29 47.55			_	В	N
ATO			TYR B 598	39.12					В	С
ATO			TYR B 598	39.49			_		В	С
ATO			TYR B 598	40.02	20 01,01					

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TRUE 2250 O TRUE 600 33.509 48.348 64.666 1.00 5.39	ВО
ATOM 2260 N MET B 601 35.627 47.657 64.858 1.00 2.99	B N B C
ATOM 2261 CA MET B 601 35.587 47.824 66.304 1.00 1.29	B C
ATOM 2262 CB MET B 601 36.930 47.461 66.925 1.00 1.89	ВС
ATOM 2263 CG MET B 601 36.902 46.210 67.778 1.00 0.00	B S
ATOM 2264 SD MET B 601 36.169 46.459 69.362 1.00 0.00	ВС
ATOM 2265 CE MET B 601 34.471 40.044 65.726 1.00 1.02	в с
ATOM 2266 C MET B 601 35.100 49.200 67.909 1.00 1.15	в О
ATOM 2267 0 MET B 601 35.035 50.147 65.775 1.00 1.01	B N
ATOM 2260 CD PHE B 602 34.605 51.495 66.127 1.00 1.34	ВС
ATOM 2203 CR PHE B 602 35.014 52.503 65.052 1.00 2.99	ВС
NTOM 2271 CG PHE B 602 36.464 52.867 65.090 1.00 2.66	B C B C
ATOM 2272 CD1 PHE B 602 37.074 53.438 63.983 1.00 3.07	ВС
ATOM 2273 CD2 PHE B 602 37.222 52.627 66.228 1.00 2.31	вС
ATOM 2274 CE1 PHE B 602 38.419 53.738 64.005 1.00 1.37	ВС
ATOM 2275 CE2 PHE B 602 36.500 52.541 00.251 1.00 4.32	в С
ATOM 2276 CZ PHE B 602 33.174 53.501 65 207 1.00 1.47	в с
ATOM 2277 C PHE B 602 33.501 51.768 67.218 1.00 0.00	ВО
ATOM 2276 0 FIED B 603 32.514 50.935 65.117 1.00 1.98	B N
ATOM 2273 R BEG B 603 31.074 50.748 64.993 1.00 2.50	B C B C
ATOM 2281 CB LEU B 603 30.758 50.146 63.622 1.00 2.06	B C B C
ATOM 2282 CG LEU B 603 31.368 50.917 62.449 1.00 2.73	ВС
ATOM 2283 CD1 LEU B 603 31.333 50.088 61.172 1.00 3.65	ВС
ATOM 2284 CD2 LEU B 603 30.617 32.228 66.105 1.00 2.05	в с
ATOM 2285 C LEU B 603 30.334 45.002 66.221 1.00 3.14	в О
ATOM 2286 O LEU B 603 23.756 30.128 1.00 0.08	B N
ATOM 2287 N MET B 604 30.836 47.586 67.127 1.00 0.00	ВС
ATOM 2288 CA MEI B 604 31.908 46.508 67.117 1.00 0.00	B C
NTOM 2290 CG MET B 604 32.152 45.881 65.760 1.00 0.00	B C. B S
ATOM 2291 SD MET B 604 30.756 44.948 65.192 1.00 0.00	ВС
NTOM 2292 CE MET B 604 30.508 43.905 66.564 1.00 0.00	ВС
ATOM 2293 C MET B 604 30.769 48.193 68.520 1.00 0.00	ВО
ATOM 2294 O MET B 604 29.738 48.145 69.167 1.00 0.00	B N
ATOM 2295 N ALA B 605 31.896 48.736 08.343 1.00 0.00	в С
ATOM 2296 CA ALA B 605 32.031 43.351 70.484 1.00 0.00	в с
ATOM 2297 CB ALA B 605 33.312 43.703 70 389 1.00 0.00	в с
ATOM 2298 C ALA B 605 30.745 50.970 71.474 1.00 0.00	ВО
ATOM 2299 0 ANA B 605 31.007 51.342 69.297 1.00 0.00	B N
ATOM 2301 CA PHE B 606 30.193 52.519 69.415 1.00 0.00	B C
ATOM 2302 CB PHE B 606 30.303 53.388 68.171 1.00 0.00	B C B C
NTOM 2303 CG PHE B 606 29.828 54.790 68.388 1.00 0.00	ВС
ATOM 2304 CD1 PHE B 606 30.284 55.523 69.469 1.00 0.00	ВС
ATOM 2305 CD2 PHE B 606 28.911 55.364 67.533 1.00 0.00	ВС
ATOM 2306 CE1 PHE B 606 29.831 56.796 69.894 1.00 0.00	в с
ATOM 2307 CE2 PHE B 606 28.434 56.650 67.745 1.00 0.00	в с
ATOM 2308 CZ PHE B 606 28.779 52.039 69.594 1.00 0.00	ВС
ATOM 2309 C PHE B 606 28.214 52.143 70.672 1.00 0.00	ВО
ATOM 2310 0 PHE B 607 28,228 51.486 68.526 1.00 0.00	B N
ATOM 2311 N ALA B 607 28.228 31.400 00.000	

			_
		26.873 50.968 68.521 1.00 0.00	ВС
MOTA	2312 CA ALA B 607	26.756 49.879 67.486 1.00 0.56	ВС
ATOM	2313 CB ALA B 607	26 437 50 439 69.878 1.00 0.91	ВС
ATOM	2314 C ALA B 607	25 220 50 718 70.342 1.00 1.76	ВО
ATOM	2315 O ALA B 607	27 210 49 678 70.518 1.00 1.36	B N
ATOM	2316 N LEU B 608	26 000 49 111 71.814 1.00 2.10	ВС
ATOM	2317 CA LEU B 608	27 007 48 045 72.197 1.00 3.39	ВС
ATOM	2318 CB LEU B 608	27.544 47 457 73.560 1.00 3.27	ВС
ATOM	2319 CG LEU B 608	21.02.	ВС
ATOM	2320 CD1 LEU B 608	20.33, 3, 3, 3, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ВС
ATOM	2321 CD2 LEU B 608	20.702 72 72 73 7 1 00 1 59	ВС
ATOM	2322 C LEU B 608	20.337 73.706 1 00 2.42	В 0
ATOM	2323 O LEU B 608	26.060 50.043 10.054 1.00 0.59	B N
ATOM	2324 N GLY B 609	27.900 51.040 72.000 1.00 0.00	ВС
MOTA	2325 CA GLY B 609	27.929 32.000 73.050 1.00 0.00	вС
ATOM	2326 C GLY B 609	26.622 52.055 75.001 1 00 0 00	в 0
ATOM	2327 O GLY B 609	26.097 53.240 73 753 1 00 0 00	B N
ATOM	2328 N TRP B 610	26.094 33.011 70 550 1 00 0 00	B. C
ATOM	2329 CA TRP B 610	24.83/ 33.710 71 000 1 16	ВС
ATOM	2330 CB TRP B 610	24.677 34.111 70.002 3.00 0.72	ВС
ATOM	2331 CG TRP B 610	23.343 54.55 700 1 00 1 34	ВС
MOTA	2332 CD2 TRP B 610	23.011 56 177 70.568 1.00 2.02	ВС
MOTA	2333 CE2 TRP B 610	21.023 57 254 70.975 1.00 0.48	ВС
ATOM	2334 CE3 TRP B 610	23./34 37.234 1 00 1 46	ВС
MOTA	2335 CD1 TRP B 610	22.100 31.00 2 17	B N
ATOM	2336 NE1 TRP B 610	21.139 54.505 70.510 1 00 1.13	вС
ATOM	2337 CZ2 TRP B 610	20.961 37.403 70.010 1.00 0.00	ВС
ATOM	2338 CZ3 TRP B 610	23.098 30.435 70 600 1 00 0 11	ВС
ATOM	2339 CH2 TRP B 610	21./14 30.33 1 00 0.00	ВС
ATOM	2340 C TRP B 610	23.695 52.795 70.707 1 00 0 00	во
ATOM	2341 O TRP B 610	22.002 000 000	B N
ATOM	2342 N ARG B 611	23.661 31.022 300 0 00	вс
ATOM	2343 CA ARG B 611	22.033 30.03 71 004 1 00 0 00	ВС
ATOM	2344 CB ARG B 611	22.930 93.00 70 0.00	ВС
ATOM	2345 CG ARG B 611	22.254 47 626 70.171 1.00 0.00	ВС
ATOM	2346 CD ARG B 611	22 668 47 457 69.376 1.00 0.00	B N
ATOM	2347 NE ARG B 611	23.000 47.897 68.129 1.00 0.00	ВС
ATOM	2348 CZ ARG B 611	23.003 48 547 67.529 1.00 0.00	в и
ATOM	2349 NH1 ARG B 611	24 030 47 656 67.465 1.00 0.00	B N
ATOM	2350 NH2 ARG B 611	22 495 50 470 74.119 1.00 0.00	вС
ATOM	2351 C ARG B 611	21 202 50 608 74.650 1.00 0.00	B 0
MOTA	2352 O ARG B 611	23 506 50 176 74.799 1.00 0.21	B N
ATOM	2353 N SER B 612	23.550 49 949 76.240 1.00 1.64	вС
ATOM	2354 CA SER B 612	24.752 49 108 76 671 1.00 1.97	вС
ATOM	2355 CB SER B 612	25 962 49 774 76.377 1.00 3.40	В 0 В С
ATOM	2356 OG SER B 612	23 570 51 221 77.043 1.00 2.58	-
ATOM		24 271 51.309 78.042 1.00 1.68	
ATOM		22 794 52.201 76.599 1.00 3.97	B N B C
ATOM	2333 14 123	22 682 53.493 77.269 1.00 4.63	вС
ATOM	2500 CA 22	23.712 54.484 76.691 1.00 5.30	вС
ATOM	2301 00 220 2 613	23 203 55.901 76.397 1.00 6.54	ВС
MOTA	2302 CO TITE B 613	23.561 56.980 77.206 1.00 7.03	ВС
ATOM	2303 ODI 1110 B 613	23.136 58.282 76.913 1.00 5.11	ВС
MOTA	2304 ODE 1111 B 613	22.398 56.165 75.282 1.00 0.00	ВС
ATOM	2303 OD2 TTO MYB B 613	21.967 57.466 74.982 1.00 5.00	ВС
ATOM	2300 CH2 TATE B 613	22.344 58.510 75.804 1.00 3.00	во
ATOM	2507 OB 1100 B 613	21.931 59.782 73.317 1.00 4.58	ВС
MOTA	2300 OII 220 B 613	21.276 53.996 77.040 1.00 5.04	вО
ATOM	2303 C TYP R 613	20.830 54.931 77.009 2.00 5.02	B N
ATOM	2074 N APG B 614	20.588 53.349 76.103 1.00 5.62	в С
ATOM	2270 CA ARC B 614	19.238 53.721 73.741 2.00 5.50	в С
MOTA	200 CD NDC B 614	19.226 53.987 74.227 1.00 4.73	в С
ATOM	OC ARC R 614	17.995 54.004 75.000 1 00 3 65	в С
ATOM	2375 CD ARG B 614	18.203 54.040 72.055 1 00 4 58	B N
ATON	2376 NE ARG B 614	16.987 55.193 71.500 1.00 3 71	в С
OTA OTA	OF ADC B 614	16.852 55.070 70.030 3 92	\mathbf{B} N
	2378 NH1 ARG B 614	17.860 54.607 65.525 1.00 2.03	$B \cdot N$
ATO ATO	2379 NH2 ARG B 614	15./1/ 55.415 65.100 1 00 6 34	ВС
ATO	2380 C ARG B 614	18.253 52.399 70.122 1 00 6.10	в О
ATO	M 2381 O ARG B 614	17.164 52.000 70.013 1.00 6 19	B N
ATO	M 2382 N GLN B 615	17 700 50 183 76 148 1.00 5.85	ВС
ATO	M 2383 CA GLN B 615	17.798 50.165 70.216 1.00 6.52	ВС
ATO	M 2384 CB GLN B 615	17.929 49.133 73.762 1.00 10.40	ВС
ATO	M 2385 CG GLN B 615	17.105 49 275 73.938 1.00 12.10	ВС
ATO	M 2386 CD GLN B 615	13.003 10.647 73.081 1.00 12.21	во
ATO	M 2387 OE1 GLN B 615	15 024 49 616 75 043 1.00 13.67	ви
ATO	2388 NE2 GLN B 615	17.055 49.424 77.455 1.00 5.32	ВС
ATO	M 2389 C GLN B 615	17 735 48 208 77 500 1.00 2.66	ВО
ATO	M 2390 O GLN B 615	18 359 50.127 78.514 1.00 5.88	B N B C
ATO	M 2391 N SER B 616	18.525 49.491 79.826 1.00 6.22	в С
ATC	AAAA MA EVU K AIA	LV. VLV	

	2393 CB SER B 616	19.477	18.281	79.729		1.53	В	C 0
MOTA	2393 CB SER B 616 2394 OG SER B 616	19.024		80.538		4.21	B B	C
MOTA MOTA	2395 C SER B 616			80.846		6.59 6.15	В	ŏ
ATOM	2396 O SER B 616			82.017		6.95	В	N
ATOM	2397 N SER B 617			80.373 81.175		8.12	В	C
ATOM	2398 CA SER B 617		52.44	82.651		9.42	В	C
MOTA	2399 CB SER B 617		52.732 53.759	83.441		0.49	В	0
MOTA	2400 OG SER B 617		53.759	81.104	••	8.93	В	С
MOTA	2401 C SER B 617		53.880	81.825		9.37	В	0
ATOM	2402 O SER B 617		52.271	80.247		9.92	В	N
MOTA	2403 N ALA B 618 2404 CA ALA B 618		52.345	80.065		0.07	В	C
MOTA	2401 011 1111		53.817	80.062	_	0.64	В	C C
ATOM	2400 02 0		51.540	81.036		9.64	В	0
MOTA	2406 C ALA B 618 2407 O ALA B 618	24.943	50.652	80.616		8.47	B B	N
MOTA MOTA	2408 N ASN B 619		51.865	82.326		8.32 6.30	В	C
ATOM	2409 CA ASN B 619		51.235	83.405 84.765		5.29	В	C
ATOM	2410 CB ASN B 619		51.713	85.836	1.00	6.28	В	С
ATOM	2411 CG ASN B 619		51.720 52.116	85.585	1.00	6.67	В	0
ATOM	2412 OD1 ASN B 619		51.292	87.042	1.00	6.41	В	N
ATOM	2413 ND2 ASN B 619	24.959	49.692	83.368	1.00	4.39	В	C
MOTA	2414	25.668	49.070	84.169	1.00	1.39	В	O N
ATOM	2415 O ASN B 619 2416 N LEU B 620	24.220	49.104	82.430	1.00	3.21	B B	C
ATOM ATOM	2417 CA LEU B 620	24.183	47.675	82.213	1.00	1.64	В	č
ATOM	2418 CB LEU B 620	22.770	47.146	82.396	1.00	0.00	В	č
ATOM	2419 CG LEU B 620	22.061	47.375	83.728	1.00 1.00	0.00	В	C
ATOM	2420 CD1 LEU B 620	20.949	46.362	83.847 84.886	1.00	0.00	В	С
ATOM	2421 CD2 LEU B 620	23.003	47.209 47.471	80.769	1.00	1.61	В	С
ATOM	2422 C LEU B 620	24.613 24.020	48.057	79.869	1.00	3.95	В	0
MOTA	2423 O LEU B 620	25.638	46.650	80.550	1.00	0.61	В	N
MOTA	2424 N LEU B 621 2425 CA LEU B 621	26.161	46.380	79.209	1.00	0.00	В	C
MOTA	2423 011	27.537	45.748	79.337	1.00	0.29	В	C
ATOM	2426 CB LEU B 621 2427 CG LEU B 621	28.725	46.661	79.086	1.00	0.00	B B	C
MOTA MOTA	2428 CD1 LEU B 621	30.006	45.916	79.397	1.00	0.00	В	č
ATOM	2429 CD2 LEU B 621	28.719	47.123	77.636	1.00 1.00	0.00	В	C
ATOM	2430 C LEU B 621	25.282	45.498	78.309 78.199	1.00	0.00	В	0
ATOM	2431 O LEU B 621	25.510	44.303	77.633	1.00	0.00	В	N
ATOM	2432 N CYS B 622	24.309 23.410	45.334	76.781	1.00	0.00	В	С
ATOM	2433 CA CYS B 622	22.015	45.958	76.803	1.00	0.00	B	C
MOTA	2434 CB CYS B 622 2435 SG CYS B 622	21.856	47.444	75.813	1.00	0.00	В	S C
ATOM	2433 50 000 - 600	23.857	45.177	75.332	1.00	0.00	В	0
MOTA	2436 C CYS B 622 2437 O CYS B 622	23.734	46.100	74.525	1.00	0.00	B B	N
ATOM ATOM	2438 N PHE B 623	24.328	43.977	75.005	1.00	0.00	В	Ċ
ATOM	2439 CA PHE B 623	24.797	43.638	73.668	1.00 1.00	0.00	В	C
ATOM	2440 CB PHE B 623	25.745	42.469 42.756	73.775 74.616	1.00	0.00	В	С
ATOM	2441 CG PHE B 623	26.936 28.108	43.213	74.016	1.00	0.00	В	С
ATOM	2442 CD1 PHE B 623	26.891	42.561	75.982	1.00	0.00	В	C
MOTA	2443 CD2 PHE B 623 2444 CE1 PHE B 623	29.225	43.467	74.828	1.00	0.00	B	C
ATOM	2111 002 002 0	28.003	42.814	76.775	1.00	0.00	В	C C
MOTA	2445 CE2 PHE B 623 2446 CZ PHE B 623	29.171	43.266		1.00	0.00 0.40	B B	č
MOTA MOTA	2447 C PHE B 623	23.686	43.311	72.683		0.00	B	ŏ
MOTA	2448 O PHE B 623	23.933	43.140		1.00	2.69	В	N
ATOM	2449 N ALA B 624	22.464	43.233			3.96	В	С
MOTA		21.275 21.515	42.705		1.00	4.93	В	С
ATOM		20.114	42.664		1.00	5.05	В	C
ATOM	2432 C 177 P 624	20.255	42.806		1.00	6.07	В	0
MOTA	505 P 625	18.943	42.289	72.820	1.00	6.15	В	D D
ATOM	2101 A DDO D 625	18.440	42.525	71.457		8.05	B B	C
ATOM ATOM	2433 OB 2300 P 626	17.826	42.028			6.77 7.53	В	č
ATOM	200 P 625	16.619	42.001			7.37	В	Č
ATOM	2458 CG PRO B 625	17.007	42.951			7.14	В	C
ATOM	2459 C PRO B 625	17.979	40.720			8.70	, B	0
MOTA	2460 O PRO B 625	17.798	40.693 39.642			6.33	В	N
ATOM	2461 N ASP B 626	18.306 18.464			1.00 ايد	4.49	B	C
ATOM	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18.615	_		1.00	3.52	В	C
ATOM	T	19.524		72.200	1.00		В	C
ATOM		19.009	38.023	71.128			B B	0
ATOM	**** *** *** * * * * * * * * * * * * * *	20.754	37.599				B	Č
ATOM ATOM	2467 C ASP B 626	19.648	38.280	4			В	Ö
MOTA	2468 O ASP B 626	19.825					В	N
ATOM	2469 N LEU B 627	20.434					В	С
ATON	2470 CA LEU B 627	21.617				_	В	C
ATO	2471 CB LEU B 62/	22.792 24.138				3.87	В	C
ATO	4 2472 CG LEU B 627					5.30	В	С
ATO	4 2473 CD1 LEU B 627	23.50						

				507	04 061	37.791	75.328	1.00	5.56	В	C
ATOM	2474		LEO B	627	24.961	40.750	76.859	1.00	0.98	В	С
ATOM	2475	_	LEU B	627	21.915	41.739	76.160	1.00	0.00	В	0
ATOM	2476		LEU B	627	22.050	40.804	78.181	1.00	1.05	В	N
ATOM	2477	N	ILE B	628	22.015		78.861	1.00	0.28	В	С
ATOM	2478	CA	ILE B	628	22.302	42.063	79.358	1.00	0.00	В	C
ATOM	2479	CB	ILE B	628	21.020	42.771	79.573	1.00	0.00	В	С
ATOM	2480	CG2	ILE B	628	21.298	44.242		1.00	0.33	В	C
ATOM	2481	CGl	ILE B	628	19.893	42.621	78.346	1.00	1.09	В	Č
ATOM	2482	CD1	ILE B	628	19.159	41.291	78.449		0.23	В	Ċ
ATOM	2483	С	ILE B	628	23.188	41.820	80.077	1.00		В	ŏ
ATOM	2484	0	ILE B	628	22.703	41.640	81.195	1.00	0.00	В	N
ATOM	2485	N	ILE B	629	24.493	41.821	79.875	1.00	0.02	B	C
ATOM	2486	CA	ILE B	629	25.344	41.573	81.004	1.00	1.90		Č
ATOM	2487	CB	ILE B	629	26.817	41.730	80.660	1.00	0.66	В	
ATOM	2488	CG2	ILE B	629	27.666	41.522	81.917	1.00	0.00	В	C
ATOM	2489	CG1	ILE B	629	27.189	40.703	79.595	1.00	0.31	В	C
ATOM	2490	CD1	ILE B	629	28.646	40.608	79.345	1.00	0.44	В	C
ATOM	2491	C	ILE B	629	24.995	42.498	82.139	1.00	3.45	В	С
ATOM	2492	ŏ	ILE B	629	25.280	43.680	82.083	1.00	4.49	В	0
ATOM	2493	N	ASN B	630	24.359	41.943	83.163	1.00	4.89	В	N
ATOM	2494	CA	ASN B	630	23.965	42.677	84.365	1.00	5.30	В	C
ATOM	2495	CB	ASN B	630	23.366	41.681	85.352	1.00	3.90	В	C
	2496	CG	ASN B	630	22.374	40.745	84.684	1.00	5.42	В	¢
ATOM	2497	OD1	ASN B	630	22.685	40.127	83.659	1.00	4.80	В	0
ATOM		ND2	ASN B	630	21.173	40.637	85.254	1.00	4.96	В	N
MOTA	2498		ASN B	630	25.185	43.370	84.971	1.00	5.91	В	С
ATOM	2499	C	ASN B		26.053	43.825	84.242	1.00	5.56	В	0
ATOM	2500	0		631	25.272	43.462	86.293	1.00	7.42	В	N
ATOM.	2501	N	_	631	26.454	44.100	86.881	1.00	8.28	В	C
MOTA	2502	CA	GLU B		26.065	45.421	87.591	1.00	8.34	В	С
MOTA	2503	СВ	GLU B		27.245	46.390	87.867	1.00	8.93	В	C
MOTA	2504	CG	GLU B		26.927	47.495	88.891	1.00	8.64	В	C
MOTA	2505	CD	GLU B		26.399	47.178	89.979	1.00	9.42	В	0
MOTA	2506	OE1	GLU B		27.223	48.680	88.619	1.00	7.18	В	0
MOTA	2507	OE2	GLU B		27.223	43.143	87.841	1.00	8.41	В	С
ATOM	2508	C	GLU B		28.399	43.309	88.106	1.00	8.53	В	0
MOTA	2509	0	GLU B		_	42.141	88.356	1.00	7.89	В	N
MOTA	2510	N	GLN B		26.488	41.164	89.247	1.00	7.38	В	С
ATOM	2511	CA	GLN B		27.102	40.471	90.110	1.00	5.66	В	С
MOTA	2512	CB	GLN B		26.040		91.243	1.00	3.17	B	С
ATOM	2513	CG	GLN B		25.503	41.335	92.613	1.00	1.69	В	С
MOTA	2514	CD	GLN B		26.003	40.911		1.00	0.31	В	0
MOTA	2515	OE1	GLN B		27.180	40.606	92.797	1.00	0.00	В	N
MOTA	2516	NE2	GLN B		25.108	40.907	93.584	1.00	7.89	В	C
ATOM	2517	C	GLN B		27.857	40.134	88.406	1.00	9.09	В	ō
ATOM	2518	0	GLN B		28.508	39.232	88.943		7.91	В	N
ATOM	2519	N	ARG B		27.773	40.288	87.086	1.00	8.24	В	C
ATOM	2520	CA	ARG B		28.446	39.396	86.155	1.00	9.11	В	Č
ATOM	2521	CB	ARG B		27.442	38.810	85.166	1.00	8.31	В	Č
ATOM	2522	CG	ARG B	633	27.994	37.683	84.286	1.00	8.44	В	č
ATOM	2523	CD	ARG B	633	26.849	36.800	83.848	1.00		В	И
ATOM	2524	NE	ARG B	633	26.017	36.501	85.007	1.00	9.93	B	C
ATOM	2525	CZ	ARG B	633	24.720	36.250	84.958	1.00	8.99	В	Ŋ
ATOM	2526	NH1	ARG B	633	24.083	36.253	83.796	1.00	9.55		N
ATOM	2527	NH2	ARG B	633	24.062	36.022	86.082	1.00	8.74	В	C
ATOM	2528	С	ARG B		29.528	40.159	85.402	1.00	8.55	В	
MOTA	2529	Ö	ARG B	633	30.053	39.696	84.392	1.00	8.86	В	0
ATOM	2530	N	MET B		29.847	41.348	85.883	1.00	9.45	В	И
ATOM	2531	CA	MET B	634	30.890	42.148	85.259	1.00	9.98	В	C
ATOM	2532	СВ	MET B		30.449	43.610	85.179	1.00	10.92	В	C
ATOM	2533	CG	MET B		28.985	43.776	84.805	1.00	11.55	В	C
ATOM	2534	SD	MET B		28.404	45.495	84.954	1.00		В	S
ATOM	2535	CE	MET B		28.352	45.990	83.191		12.39	В	C
ATOM	2536	C	MET B		32.080	41.987	86.210	1.00	9.74	В	C
ATOM	2537	Ö	MET B		32.933	42.881	86.355	1.00	9.15	В	0
ATOM	2538	N	THR B		32.105	40.822	86.856	1.00	8.39	В	N
	2539	CA	THR B		33.135	40.466	87.826	1.00	7.94	В	C
MOTA		CB	THR B		32.527	40.326	89.221	1.00	9.56	В	С
ATOM	2540	OG1	THR E		31.913	39.031		1.00	8.57	В	0
MOTA	2541	CG2			31.458	41.423		1.00	10.40	В	С
MOTA	2542		THR E		33.730	39.124		1.00		В	С
ATOM	2543	C	THR E	. 635 1 635	34.939		87.483	1.00	6.42	В	0
ATOM	2544	0	LEU E	6 636	32.835		87.081	1.00	6.45	B	N
ATOM	2545	N	TEU E	. 636	33.171		86.674	1.00	6.37	В	С
MOTA	2546	CA	LEU E		31.881	36.016		1.00	3.85	В	C
ATOM	2547	CB	LEU E		31.881	34.520		1.00		В	C
ATOM	2548	CG	LEU E			33.864		1.00		В	С
MOTA	2549	CD1			30.575	34.354		1.00	1.98	В	C
MOTA	2550	CD2	LEU F		31.820	_		1.00	8.32	В	С
MOTA	2551	C	LEU E		33.881	35.745				В	0
ATOM	2552	0	LEU F		34.310			1.00		В	N
MOTA	2553	N	PRO E		34.051	37.976		1.00	9.39	B	Ċ
MOTA	2554	CD	PRO I	3 637	33.519	39.352	04.1T2	1.00	J • J J	_	_

* m/\\	2555	CA	PRO B	637	34.738	37.802	83.342	1.00 1		B B	C C
MOTA MOTA		CB	PRO B		34.265	39.017	82.534		9.72 8.64	В	C
ATOM		CG	PRO B	637	34.217	40.062	83.559 83.403		3.46	В	С
ATOM		C	PRO B		36.270 36.938	37.703 38.359	84.217	1.00 1		В	0
ATOM		0	PRO B	637 638	36.813	36.855	82.534	1.00 1	3.65	В	N .
ATOM	2560	N CA	ASP B	638	38.254	36.694	82.402		2.96	В	C .
ATOM ATOM	2561 2562	CB	ASP B	638	38.560	35.536	81.436	1.00 1		B B	C C
ATOM	2563	CG	ASP B	638	40.009	35.084	81.485		1.66 9.78	В	Ö
ATOM	2564	OD1	ASP B		40.908	35.947	81.430		9.78	В	ŏ
ATOM	2565	OD2	ASP B		40.243	33.855 38.039	81.567 81.760		3.79	В	С
MOTA	2566	C	ASP B		38.623 39.720	38.209	81.227	1.00 1		В	0
ATOM	2567	И	ASP B MET B	_	37.655	38.965	81.794		2.76	В	N
ATOM ATOM	2568 2569	CA	MET B		37.776	40.332	81.274	1.00 1		B B	C
MOTA	2570	CB	MET B		37.490	40.403	79.758	1.00 1	0.67	В	C
ATOM	2571	CG	MET B		37.407	41.850 42.030	79.200 77.393	1.00	7.70	В	S
ATOM	2572	SD	MET B		37.606 36.034	42.030	76.868	1.00	5.74	В	С
· ATOM	2573	CE	MET B		36.862	41.337	81.998		2.93	В	C
ATOM ATOM	2574 2575	C O	MET B		35.706	41.577	81.607		12.98	B B	O
ATOM	2576	N	TYR B		37.400	41.903	83.072	1.00	11.95 9.67	В	C
ATOM	2577	ÇA	TYR B		36.721	42.920	83.862 85.251	1.00	6.77	В	С
MOTA	2578	CB	TYR B		36.394 36.375	42.397 43.474	86.285	1.00	5.87	В	C
ATOM	2579	CG	TYR B		35.357	44.422	86.319	1.00	5.63	В	C
MOTA	2580 2581	CD1			35.378	45.463	87.244	1.00	5.53	В	C
ATOM ATOM	2582	CD2			37.413	43.589	87.203	1.00	6.07 5.83	B B	C
ATOM	2583	CE2			37.438	44.630	88.132	1.00 1.00	4.97	В	č
MOTA	2584	CZ	TYR P		36.419	45.553 46.536	88.144 89.087	1.00	6.67	В	0
MOTA	2585	ОН	TYR E		36.433 37.806	43.983	83.917	1.00	8.84	В	C
MOTA	2586	C O	TYR E		37.589	45.142	84.281	1.00	7.07	В	0
MOTA MOTA	2587 2588	N	ASP E		38.997	43.537	83.535	1.00	9.04	B B	N C
ATOM	2589	CA	ASP E		40.164	44.395	83.449	1.00 1.00	8.79 8.34	В	č
MOTA	2590	CB	ASP E		41.456	43.553 42.058	83.507 83.354	1.00	5.99	В	С
MOTA	2591	CG	ASP I		41.199 40.357	41.515	84.101	1.00	4.95	В	0
ATOM	2592 2593	OD2		3 641	41.851	41.425	82.498	1.00	3.33	В	O C
ATOM ATOM	2594	C		B 641	39.998	45.073	82.081	1.00	9.57 10.91	B B	0
ATOM	2595	ŏ		B 641	40.854	45.830	81.613 81.456	1.00 1.00	9.01	В	Ŋ
ATOM	2596	N	GLN I	B 642	38.864	44.775 45.324	80.161	1.00	8.20	В	С
MOTA	2597	CA		B 642 B 642	38.503 39.498	44.841	79.077	1.00	7.93	В	C
MOTA	2598 2599	CB CG	GLN I		40.607	45.867	78.783	1.00	4.06	В	C C
ATOM ATOM	2600	CD	GLN		42.041	45.299	78.810	1.00	3.80 3.12	B B	o
MOTA	2601	OE:			42.466		79.779 77.746	$1.00 \\ 1.00$	2.28	В	N
ATOM	2602	NE			42.798 37.028		79.846		8.23	В	C
ATOM	2603	C	GLN :		36.684		78.808	1.00	6.78	В	0
MOTA MOTA	2604 2605	N O	CYS	_	36.162			1.00	8.29	В	C N
ATOM	2606	·CA		B 643	34.730	45.098		1.00 1.00	8.60 9.67	B B	č
ATOM	2607	CB	CYS		34.258			1.00	14.21	В	S
ATOM	2608	SG			34.173 34.141				7.46	В	С
ATOM	2609 2610	C	CYS		32.956			1.00	6.22	В	0
ATOM ATOM	2611	N	LYS		35.012	47.320			7.31 7.34	B B	N C
ATOM	2612	CA	LYS	B 644	34.662	and the second s			10.71	В	Č
ATOM	2613	CB			35.510 37.012				12.57	В	C
ATOM	2614	CG		В 644 В 644	37.012				15.15	В	C
MOTA	2615	CD CE		B 644	39.305		83.958		16.34	В	C
ATOM ATOM	2616 2617	NZ		B 644	39.923	49.549			17.09	B B	N C
MOTA	2618	C	LYS	B 644	34.893				6.16 6.91	В	ŏ
ATOM	2619	0	LYS	B 644	34.139				3.96	В	N
MOTA	2620			B 645	35.937 36.200				2.33	В	С
MOTA	2621			B 645 B 645	37.317			1.00		В	C
MOTA	2622 2623			В 645	38.631	49.654	78.672		0.99	В	C
MOTA MOTA	2624	CI	2 HIS	B 645	38.972					B B	И
ATOM ATOM	2625	ND	1 HIS	B 645	39.780				0.21	В	C
ATOM	2626	CE	HIS	B 645	40.776					В	N
MOTA	2627		2 HIS	B 645	34.93			1.00	1.30	В	C
ATOM	2628 2629		HIS	B 645	34.48	51.663	3 77.908	1.00		В	N O
MOTA ATOM	2630		MET	B 646	34.34	5 49.478				B B	C
MOTA	2631		MET	B 646	33.14					В	Č
MOTA	2632	CI		B 646	32.63		_			В	С
MOTA				В 646 В 646	33.68° 32.84°			1.00	4.15	В	S
MOTA				B 646	31.83		•		4.12	В	С
MOTA	2030	, 0,									

ATOM	2636	C	MET B	646		50.341	77.491	1.00	0.00	B B	C O
ATOM	2637		MET B		0414-	51.111	76.925 78.786	1.00	0.00	В	N
ATOM	2638		LEU B	_	31.958	50.065 50.702	79.624	1.00	0.00	В	C
MOTA	2639		LEU B		30.939 30.842	49.964	80.957	1.00	0.00	В	C
MOTA	2640		LEU B LEU B		29.543	50.132	81.722	1.00	0.00	В	C
ATOM ATOM	2641 2642		LEU B		28.416	49.541	80.923	1.00	0.00	В	C C
ATOM	2643	•	LEU B		29.648	49.462	83.055	1.00	0.00	B B	C
ATOM	2644	C	LEU B		31.300	52.183	79.844 79.946	1.00	1.27	В	Õ
ATOM	2645	_	LEU B		30.428	53.048 52.451	79.946	1.00	3.34	В	N
ATOM	2646	N	TYR B		32.603 33.152	53.797	80.070	1.00	4.93	В	С
ATOM	2647 2648	CA CB	TYR B		34.681	53.746	80.204	1.00	2.83	В	C
ATOM ATOM	2649	CG	TYR B		35.236	53.570	81.602	1.00	4.48	B B	C
ATOM	2650	CD1	TYR B	648	36.596	53.354	81.792	1.00 1.00	4.35	В	č
ATOM	2651	CE1	TYR B		37.131	53.228 53.653	83.055 82.732	1.00	4.68	В	Ċ
ATOM	2652	CD2	TYR B		34.414 34.941	53.528	84.014	1.00	3.46	В	C
ATOM	2653 2654	CE2 CZ	TYR B		36.305	53.317	84.161	1.00	4.16	В	С
ATOM ATOM	2655	OH	TYR B		36.862	•	· 85.409	1.00	5.17	B B	C
ATOM	2656	C	TYR B		32.825	54.593	78.809	1.00	5.48 7.80	В	ŏ
ATOM	2657	0	TYR B		33.408 31.914	55.665 54.047	78.569 77.999	1.00	4.36	В	N
ATOM	2658	N	VAL E		31.493	54.667	76.745	1.00	2.80	В	C
ATOM	2659 2660	CA CB	VAL E		31.495	53.657	75.596	1.00	2.04	В	C
ATOM ATOM	2661	CG1	VAL E		30.963	54.308	74.346	1.00	1.75	B B	C C
ATOM	2662	CG2	VAL E		32.899	53.114	75.374	1.00 1.00	2.10 2.51	В	č
MOTA	2663	C	VAL E		30.081 29.735	55.186 56.235	76.882 76.361	1.00	0.00	В	0
MOTA	2664	0	VAL E		29.733 29.267	54.433	77.602	1.00	3.61	В	N
ATOM	2665 2666	n Ca	SER E		27.879	54.800	77.800	1.00	4.00	В	C
MOTA MOTA	2667	CB	SER I		27.074	53.548	78.129	1.00	3.75 6.70	B B	C O
ATOM	2668	OG	SER E		27.726	52.813	79.150 78.883	1.00 1.00	3.42	В	Č
MOTA	2669	C	SER I		27.669 26.536	55.849 56.221	79.156	1.00	3.44	В	0
MOTA	2670	N O	SER I		28.744	56.326	79.503	1.00	2.15	В	N
ATOM ATOM	2671 2672	CA	SER I	_	28.608	57.339	80.553	1.00	1.27	B B	C
ATOM	2673	CB	SER I	B 651	29.289	56.869	81.845	1.00 1.00	1.99 0.00	В	0
ATOM	2674	OG	SER I		28.384	56.187 58.739	82.694 80.182	1.00	0.88	В	Ċ
MOTA	2675	С	SER I		29.107 28.987	59.670	80.967	1.00	1.76	В	0
MOTA	2676 2677	O N	SER I		29.663	58.884	78.989	1.00	0.00	В	N
ATOM ATOM	2678	CA	GLU 1		30.141	60.173	78.524	1.00	0.00	B B	C
ATOM	2679	CB	GLU I	В 652	31.635	60.083	78.163 77.974	1.00	0.00 0.00	В	c
ATOM	2680	CG		B 652	32.348 32.113	61.422 62.376	79.133	1.00	0.00	В	C
MOTA	2681	CD OE1		B 652 B 652	32.374	61.967	80.284	1.00	0.00	В	0
ATOM ATOM	2682 2683	OE2			31.669	63.529	78.886	1.00	0.00	B B	0
ATOM	2684	C		B 652	29.272	60.457	77.302	1.00 1.00	$0.00 \\ 0.00$	В	0
MOTA	2685	0		В 652	29.281 28.520	61.532 59.442	76.737 76.913	1.00	0.00	В	N
MOTA	2686	N . CA	-	В 653 В 653	27.585	59.494	75.802	1.00	0.00	В	C
ATOM ATOM	2687 2688	CB	_	B 653	27.459	58.088	75.192	1.00	0.11	В	C
MOTA	2689	CG		в 653	26.801	57.694	73.861	1.00 1.00	0.00 1.46	B B	C
MOTA	2690	CD1		B 653	25.425	58.282 58.148	73.772 72.698	1.00	0.75	В	C
MOTA	2691	CD2	LEU	в 653 в 653	27.644 26.306	59.869	76.550	1.00	0.00	В	С
MOTA MOTA	2692 2693	C O		B 653	25.320	60.308	75.981	1.00	0.00	В	0
ATOM	2694	Ŋ		B 654	26.349	59.691	77.860	1.00	0.00	B B	N C
ATOM	2695	CA		B 654	25.220	59.993 58.829	78.713 79.649	1.00 1.00	0.00	В	Ċ
ATOM	2696	CB	HIS	В 654 В 654	24.969 23.757	58.989	80.505	1.00	0.03	В	С
ATOM	2697 2698	CG CD2		B 654	22.495	58.530	80.353		0.00	В	C
MOTA MOTA	2699	ND1		B 654	23.777	59.676			0.86	В	N C
ATOM	2700	CE1	HIS	B 654	22.578	59.628			0.86 0.22	B B	N
MOTA	2701	NE2		B 654	21.782	58.938 61.226				В	Ç
MOTA	2702	C		B 654 B 654	25.561 24.672	61.220				В	.0
MOTA	2703 2704	O N		B 655	26.865	61.449		1.00		В	N
MOTA MOTA	2705		ARG		27.363	62.620			2.84	В	C
ATOM	2706	•	ARG	B 655	28.885	62.547			5.23	B B	C
ATOM	2707	CG		B 655	29.555	63.879 63.753				В	C
MOTA	2708	CD	ARG	B 655 B 655	30.802 30.481	63.586			7.25	В	N
ATOM	2709 2710			B 655	31.271	63.967	84.134	1.00		В	C
ATOM ATOM	2711		L ARG	B 655	32.437	64.540				B B	N N
ATOM	2712	NH2	2 ARG	B 655	30.887	63.786				В	C
ATOM	2713			B 655 B 655	26.963 26.332	63.781 64.730				В	0
ATOM	2714 2715			B 656	27.304	63.676	78.202	1.00	2.73	В	N
ATOM ATOM	2715	_		B 656	26.956			1.00	2.39	В	С

				CT C	27.909	64.682	76.033	1.00	0.24	В	С
ATOM	2717		LEU B	656 656	29.398	64.888	76.301	1.00	0.00	В	C
ATOM ATOM	2718 2719	-	LEU B	656	30.161	64.929	74.988	1.00	0.00	B B	C C
ATOM	2720	CD2	LEV B	656	29.586	66.166	77.061 76.725	1.00	0.00 3.19	В	č
MOTA	2721	•	LEU B	656	25.536 25.124	64.504 65.161	75.774	1.00	3.40	В	0
MOTA	2722	•	LEU B	656 657	24.795	63.592	77.352	1.00	3.85	В	N C
ATOM ATOM	2723 2724	•	GLN B	657	23.414	63.309	76.959	1.00	4.18	B B	C
ATOM	2725		GLN B		22.454	64.231	77.720 79.249	1.00	6.48 1.61	В	č
ATOM	2726		GLN B		22.582 21.694	64.173 65.195	79.978	1.00		В	С
ATOM	2727 2728		GLN B GLN B		21.753	65.322	81.203	1.00	15.56	В	0
ATOM ATOM	2729		GLN B		20.872	65.921	79.224	1.00	14.40 2.89	B B	N C
ATOM	2730	_	GLN B		23.174	63.461 63.913	75.447 75.027	1.00	1.31	В	Ö
MOTA	2731		GLN B		22.112 24.171	63.913	74.648	1.00	1.74	В	N
MOTA MOTA	2732 2733		VAL B VAL B		24.108	63.152	73.187	1.00	0.37	B B	C
ATOM	2734		VAL B	658	25.131	62.205	72.532	1.00	0.72 2.31	В	Č
MOTA	2735	•	VAL B		25.122 26.505	62.386 62.472	71.023 73.085	1.00	0.94	В	С
MOTA	2736		VAL B		22.746	62.746	72.697	1.00	0.00	В	C
atom atom	2737 2738	•	VAL B		22.013	62.085	73.409	1.00	0.00	B B	O N
ATOM	2739	N	SER B	659	22.402	63.135	71.480 70.932	1.00 1.00	0.00 0.00	В	Ĉ
ATOM	2740	-	SER B		21.106 20.376	62.761 63.996	70.332	1.00	0.00	В	C
MOTA	2741 2742	CB OG	SER B		20.183	64.927	71.452	1.00	0.00	В	O C
MOTA MOTA	2742	C	SER B		21.219	61.724	69.817	1.00	2.02 1.89	B B	0
ATOM	2744	0	SER B		22.325	61.381 61.233	69.380 69.365	1.00	4.01	В	N
ATOM	2745	N	TYR B		20.063 19.980	60.236	68.291	1.00	4.74	В	C
ATOM- ATOM	2746 2747	CA CB	TYR B		18.581	59.598	68.268	1.00	3.00	B B	C
ATOM	2748	ÇG	TYR E	660	18.411	58.536	67.212 67.436	1.00 1.00	0.00	В	č
MOTA	2749	CD1	TYR E		18.831 18.707	57.230 56.259	66.453	1.00	0.00	В	С
ATOM	2750 2751	CE1 CD2	TYR E		17.860	58.847	65.972	1.00	0.00	В	C
MOTA MOTA	2752	CE2	TYR E		17.735	57.886	64.979	1.00	$0.00 \\ 0.00$	B B	C
ATOM	2753	CZ	TYR E		18.159	56.593 55.639	65.228 64.248	1.00	0.00	В	Ö
ATOM	2754	OH	TYR E		18.027 20.289	60.861	66.922	1.00	5.76	B	C
ATOM ATOM	2755 2756	C O	TYR E		21.240	60.472	66.245	1.00	7.12	B B	O N
ATOM	2757	N	GLU F	B 661	19.480	61.828	66.511 65.242	1.00	6.06 6.44	В	C
MOTA	2758	CA	GLU F		19.712 18.605	62.492 63.511	64.974	1.00	7.22	В	С
MOTA	2759 2760	CB CG	GLU I		17.193	63.023	65.346	1.00	8.43	В	C
ATOM ATOM	2761	CD	GLU I		16.620	61.966	64.395	1.00	8.03 7.13	B B	C O
MOTA	2762	OE1	GLU I		15.520	61.434 61.674	64.677 63.365	1.00	7.62	В	Ö
MOTA	2763	OE2	GLU I	В 661 В 661	17.260 21.056	63.198	65.383	1.00	6.19	В	C
MOTA MOTA	2764 2765	C	-	B 661	21.466	63.948	64.510	1.00	8.69	B B	O N
ATOM	2766	N	-	В 662	21.730	62.938 63.517	66.502 66.829	1.00	5.14 4.36	В	C
ATOM	2767	CA		в 662 в 662	23.032 22.942	64.257	68.175	1.00	3.06	В	C
ATOM ATOM	2768 2769	CB CG		B 662	24.143	65.127	68.564	1.00	2.11	B B	C
ATOM	2770	CD		В 662	24.066	65.665	69.995 70.411	1.00	1.78 1.59	В	ŏ
ATOM	2771	OE1		В 662 В 662	22.978 25.093	66.096 65.667	70.702	1.00	1,.65	В	0
MOTA	2772 2773	OE2 C	GLU :		24.021	62.366	66.941	1.00	4.24	В	C O
ATOM ATOM	2774	Ö	GLU :	B 662	25.212	62.568	67.087 66.857	1.00 1.00	2.99 3.70	B B	N
MOTA	2775	N	TYR		23.498 24.281	61.150 59.913		1.00	1.87	В	С
ATOM	2776 2777	CA CB	TYR	B 663 B 663	23.493	58.908	67.808	1.00		В	C
ATOM ATOM	2778	CG		в 663	23.786			1.00		B B	C
ATOM	2779	CD1	TYR	в 663	24.986					В	Č
MOTA	2780	_		B 663 B 663	25.242 22.849					В	C
MOTA	2781 2782			B 663	23.095		66.700	1.00		В	C
ATOM ATOM	2783		TYR	B 663	24.292					B B	Ô
ATOM	2784	OH		B 663	24.539					В	C
MOTA	2785		TYR TYR	B 663 B 663	24.617 25.752			1.00	1.26	В	, 0
MOTA MOTA	2786 2787			B 664	23.602	59.155	64.760	1:00	_	B B	N C
ATOM	2788	CA	LEU	B 664	23.763						c
ATOM	2789	CB		B 664	22.424 21.084			1.00	0.00	В	С
ATOM	2790 2791			B 664 B 664	19.986	58.340	62.321	1.00	0.00		C
ATOM	2792	_	FEQ.	B 664	21.126	56.869				B B	C
ATOM	2793	C	LEO	B 664	24.812					_	0
MOTA	2794			B 664 B 665	25.354 25.083		63.043	1.00	0.00	В	N
ATOM ATOM	2795 2796			B 665	26.088	61.401	62.359			_	C
ATOM	2797			В 665	25.741	62.876	62.439	1.00	0.00	D	C

N. TOOM	2798	SG	CYS B	665	25.300	63.577	60.867	1.00	0.00	В	S
MOTA	2799	C	CYS B	665	27.403	61.179	63.049	1.00	0.00	В	C
ATOM	2800	Õ	CYS B	665	28.426	60.982	62.407	1:00	0.00	В	0
ATOM		Ŋ	MET B	666	27.351	61,205	64.375	1.00	0.03	В	N
MOTA	2801 2802	CA	MET B	666	28.524	60.993	65.204	1.00	0.67	В	C
MOTA		CB	MET B	666	28.115	60.976	66.674	1.00	0.00	В	С
ATOM	2803	CG	MET B	666	29.207	61.363	67.639	1.00	0.46	В	C
ATOM	2804			666	28.527	62.015	69.191	1.00	0.00	В	S
MOTA	2805	SD		666	28.221	60.528	70.092	1.00	0.57	В	C
ATOM	2806	CE	MET B	666	29.199	59.680	64.827	1.00	0.95	В	C
MOTA	2807	C	MET B		30.391	59.657	64.561	1.00	1.95	В	0
ATOM	2808	0	MET B	666 667	28.439	58.590	64.778	1.00	0.40	В	N
MOTA	2809	N	LYS B	667	29.018	57.301	64.429	1.00	0.63	В	C
ATOM	2810	CA	LYS B	667	28.019	56.163	64.562	1.00	2.57	В	С
ATOM	2811	CB		667	28.673	54.783	64.444	1.00	0.68	В	С
ATOM	2812	CG	LYS B	667	27.653	53.705	64.244	1.00	0.32	В	С
ATOM	2813	CD	LYS B	667	27.120	53.756	62.837	1.00	0.82	В	С
ATOM	2814	CE	LYS B	667	25.925	52.887	62.690	1.00	2.75	В	N
MOTA	2815	NZ	LYS B	667	29.523	57.281	63.020	1.00	0.73	В	С
ATOM	2816	С 0	LYS B	667	30.649	56.867	62.786	1.00	3.35	В	0
MOTA	2817	N	THR B	668	28.691	57.701	62.075	1.00	0.09	В	N
ATOM	2818	CA	THR B	668	29.104	57.712	60.676	1.00	0.00	В	С
MOTA	2819	CB	THR B	668	28.080	58.432	59.797	1.00	0.00	В	C
ATOM	2820	OG1	THR B	668	26.801	57.825	59.979	1.00	0.00	В	0
ATOM	2821	CG2	THR B	668	28.460	58.320	58.325	1.00	0.00	В	C
ATOM	2822	C	THR B	668	30.479	58.356	60.464	1.00	0.46	В	С
ATOM	2823	Ö	THR B	668	31.006	58.355	59.350	1.00	0.63	В	0
ATOM	2824	И	LEU B	669	31.050	58.903	61.536	1.00	0.09	В	N
MOTA	2825	CA	LEU B	669	32.371	59.518	61.485	1.00	0.62	В	C
ATOM	2826 2827	CB	LEU B		32.363	60.865	62.211	1.00	0.00	В	С
MOTA	2828	CG	LEU B		31.629	62.014	61.505	1.00	0.14	В	С
ATOM	2829	CD1	LEU B		31.713	63.267	62.363	1.00	0.35	В	C
ATOM ATOM	2830	CD2	LEU B	-	32.233	62.263	60.130	1.00	0.00	В	C
ATOM	2831	C	LEU B		33.422	58.590	62.095	1.00	0.56	В	C
ATOM	2832	Ö	LEU B		34.619	58.790	61.921	1.00	1.08	В	0
ATOM	2833	N	LEU B	•	32.980	57.577	62.825	1.00	1.32	В	N
ATOM	2834	CA	LEU B		33.925	56.639	63.386	1.00	2.02	В	С
ATOM	2835	CB	LEU B		33.261	55.732	64.415	1.00	2.40	В	C
ATOM	2836	CG	LEU B	•	33.204	56.317	65.823	1.00	2.85	В	C
ATOM	2837	CD1	LEU B		32.685	55.276	66.792	1.00	2.27	В	С
ATOM	2838	CD2	LEU B	_	34.588	56.777	66.246	1.00	2.47	В	C
ATOM	2839	C	LEU B		34.475	55.810	62.237	1.00	2:95	В	C
ATOM	2840	ŏ	LEU B		35.564	55.245	62.340	1.00	3.88	В	0
ATOM	2841	N	LEU B		33.721	55.740	61.140	1.00	3.57	В	N C
ATOM	2842	CA	LEU B		34.161	54.987	59.972	1.00	4.54	В	C
ATOM	2843	CB	LEU B	671	33.036	54.840	58.955	1.00	4.10	B B	C
ATOM	2844	CG	LEU B	671	33.498	54.188	57.642	1.00	5.62	В	C
ATOM	2845	CD1	LEU B	671	32.300	53.549	56.940	1.00	5.52	В	Č
MOTA	2846	CD2	LEU B	671	34.205	55.215	56.743	1.00	4.90 5.01	В	Č
ATOM	2847	С	LEU B		35.312	55.701	59.304	1.00	3.26	В	Ö
MOTA	2848	0	LEU B		36.373	55.115	59.061	$1.00 \\ 1.00$	5.62	В	N
ATOM	2849	N	LEU B		35.067	56.973	58.992	1.00	3.54	В	Ċ
MOTA	2850	CA	LEU B		36.037	57.853	58.342				Ċ
MOTA	2851	CB	LEU B		35.385			1 10	コーロン	В	
ATOM	2852	CG	T 77 7			59.195	58.025	1.00	1.02	B B	
ATOM			LEU B		34.143	59.180	57.146	1.00	2.07	В	C
MOTA	2853	CD1	LEU B	672	34.143 33.586	59.180 60.596	57.146 57.067	1.00 1.00	2.07 1.51	B B	
	2854	CD1 CD2	LEU B	672 672	34.143 33.586 34.487	59.180 60.596 58.641	57.146 57.067 55.761	1.00 1.00 1.00	2.07 1.51 2.88	B B B	C
MOTA	2854 2855	CD1 CD2 C	LEU B	672 672 672	34.143 33.586 34.487 37.268	59.180 60.596 58.641 58.109	57.146 57.067 55.761 59.198	1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14	B B	000
ATOM ATOM	2854 2855 2856	CD1 CD2 C	LEU B	672 672 672 672	34.143 33.586 34.487 37.268 38.389	59.180 60.596 58.641 58.109 58.056	57.146 57.067 55.761 59.198 58.722	1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65	В В В	0000
ATOM MOTA	2854 2855 2856 2857	CD1 CD2 C O N	LEU B LEU B LEU B SER B	672 672 672 672 673	34.143 33.586 34.487 37.268 38.389 37.050	59.180 60.596 58.641 58.109 58.056 58.387	57.146 57.067 55.761 59.198 58.722 60.469	1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24	В В В В	00000
ATOM ATOM ATOM	2854 2855 2856 2857 2858	CD1 CD2 C O N CA	LEU B LEU B LEU B SER B SER B	672 672 672 672 673 673	34.143 33.586 34.487 37.268 38.389 37.050 38.149	59.180 60.596 58.641 58.109 58.056 58.387 58.677	57.146 57.067 55.761 59.198 58.722 60.469 61.352	1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51	B B B B	000001
MOTA MOTA MOTA MOTA	2854 2855 2856 2857 2858 2859	CD1 CD2 C O N CA CB	LEU B LEU B LEU B SER B SER B SER B	672 672 672 672 673 673 673	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754	1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12	B B B B B	0000000
MOTA MOTA MOTA MOTA MOTA	2854 2855 2856 2857 2858 2859 2860	CD1 CD2 C O N CA CB	LEU B LEU B LEU B SER B SER B SER B SER B	672 672 672 672 673 673 673	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800	1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79	B B B B B	00000000
ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861	CD1 CD2 C O N CA CB OG C	LEU B LEU B LEU B SER B SER B SER B SER B SER B	672 672 672 672 673 673 673 673	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36	B B B B B B	000002000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862	CD1 CD2 C O N CA CB OG C	LEU B LEU B LEU B SER B SER B SER B SER B SER B SER B	672 672 672 672 673 673 673 673 673	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38	B B B B B B	0000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863	CD1 CD2 C O N CA CB OG C	LEU B LEU B LEU B SER B	672 672 672 672 673 673 673 673 673	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22	B B B B B B B B	CCCCCCCCCCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864	CD1 CD2 C O N CA CB OG C	LEU B LEU B LEU B SER B	672 672 672 672 673 673 673 673 673 674	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38	B B B B B B B B B B B B	CCCCCCCCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865	CD1 CD2 C O N CA CB OG C O N CA	LEU B LEU B LEU B SER B	672 672 672 672 673 673 673 673 673 674 674	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08	B B B B B B B B B B B B B B B	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866	CD1 CD2 C O N CA CB OG C O N CA CB OG	LEU B LEU B LEU B SER B	672 672 672 673 673 673 673 673 674 674 674	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00	B B B B B B B B B B B B B B B B B B B	OOOOOOOOOOOOOOOO
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867	CD1 CD2 C O N CA CB OG C O N CA CB C C O C C C C C C C C C C C C C C C	LEU B LEU B LEU B SER B	672 672 672 672 673 673 673 673 674 674 674 674	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00	B B B B B B B B B B B B B B B B B B B	0000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868	CD1 CD2 C O N CA CB OG C O N CA CB OG C O	LEU B LEU B LEU B SER B	672 672 672 672 673 673 673 673 674 674 674 674 674 674	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00 0.00	B B B B B B B B B B B B B B B B B B B	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869	CD1 CD2 C O N CA CB OG C O N CA CB OG O N	LEU B LEU B LEU B SER B	672 672 672 672 673 673 673 673 674 674 674 674 674 674 674	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00 0.00	B B B B B B B B B B B B B B B B B B B	OCCOCCOCCOCCC
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870	CD1 CD2 C O N CA CB OG C O N CA CB OG C O N CA CB	LEU B LEU B LEU B SER B	672 672 672 673 673 673 673 674 674 674 674 674 674 674 674 674	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698 43.151	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809 56.728	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989 58.370	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00 0.00 0.13 0.96	B B B B B B B B B B B B B B B B B B B	OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871	CD1 CD2 C O N CA CB OG C O N CA CB OG C O CA CB	LEU B LEU B LEU B SER B VAL B VAL B	672 672 672 673 673 673 673 674 674 674 674 674 674 674 674 674 675 675 675	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698 43.151 43.304	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809 56.728 58.133	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989 58.370 56.984	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00 0.00 0.13 0.00 0.96 2.58	888888888888888888888888888888888888888	OUUDAODOUOZOUOZOUU
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872	CD1 CD2 C O N CA CB OG C O N CA CB CG C CA CB CC	LEU B LEU B LEU B SER B VAL B VAL B VAL B	672 672 672 673 673 673 673 673 674 674 674 674 674 674 674 675 675 675	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698 43.151 43.304 43.120	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809 56.728 58.133 58.095	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989 58.370 56.984 56.382	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00 0.00 0.13 0.00 0.96 2.58 4.64	B B B B B B B B B B B B B B B B B B B	OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872 2873	CD1 CD2 C O N CA CB OG C O N CA CB CG1 CG2	LEU B LEU B LEU B SER B VAL B VAL B VAL B VAL B	672 672 672 673 673 673 673 674 674 674 674 674 674 674 675 675 675 675	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698 43.151 43.304 43.120 42.334	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809 56.728 58.133 58.095 59.082	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989 58.370 56.984 56.382 54.873	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.00 0.00 0.00 0.13 0.00 0.96 2.58 4.64 6.17	888888888888888888888888888888888888888	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2872 2873 2874	CD1 CD2 C O N CA CB OG C O N CA CB CG C C C C C C C C C C C C C C C C C	LEU B LEU B LEU B SER B VAL B VAL B VAL B VAL B VAL B	672 672 672 672 673 673 673 673 674 674 674 674 674 674 674 675 675 675 675 675	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698 43.151 43.304 43.120 42.334 44.534	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809 56.728 58.133 58.095 59.082 59.082 56.100	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989 58.370 56.984 56.382 54.873 57.052	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00 0.00 0.13 0.00 0.96 2.58 4.64 6.17 7.58	888888888888888888888888888888888888888	000000000000000000000000000000000000000
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2873 2874 2875	CD1 CD2 C O N CA CB OG C O N CA CB CG1 CG2 C O	LEU B LEU B LEU B SER B VAL B VAL B VAL B VAL B VAL B VAL B	672 672 672 672 673 673 673 673 674 674 674 674 674 674 675 675 675 675 675 675	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698 43.151 43.304 44.534 45.200	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809 56.728 58.133 58.095 59.082	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989 58.370 56.984 56.382 54.873 57.052 56.974	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00 0.00 0.13 0.96 2.58 4.64 6.17 7.58 1.31	888888888888888888888888888888888888888	O O O O O O O O O O O O O O O O O O O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2870 2871 2873 2874 2875 2876	CD1 CD2 C CD3 CA CB CC O CA CCB CC O CCB CCC O CCC C	LEU B LEU B LEU B SER B VAL B	672 672 672 672 673 673 673 674 674 674 674 674 674 674 675 675 675 675 675 675 675 675	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698 43.151 43.304 43.120 42.334 44.534 45.200 44.980	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809 56.728 58.133 58.095 59.082 56.100 56.042	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989 58.370 56.984 56.382 54.873 57.052 56.974 58.004 55.822	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.00 0.00 0.00 0.00 0.96 2.58 4.64 6.17 7.58 1.31 3.84 0.53 0.00	888888888888888888888888888888888888888	O O O O O O O O O O O O O O O O O O O
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2854 2855 2856 2857 2858 2859 2860 2861 2862 2863 2864 2865 2866 2867 2868 2869 2870 2871 2873 2874 2875	CD1 CD2 C O N CA CB OG C O N CA CB CG1 CG2 C O	LEU B LEU B LEU B SER B VAL B VAL B VAL B VAL B VAL B VAL B PRO B	672 672 672 672 673 673 673 674 674 674 674 674 674 674 675 675 675 675 675 675 675 675	34.143 33.586 34.487 37.268 38.389 37.050 38.149 37.621 36.965 39.225 39.317 40.039 41.180 40.922 41.776 41.480 40.626 42.698 43.151 43.304 44.534 45.200	59.180 60.596 58.641 58.109 58.056 58.387 58.677 58.994 60.253 57.606 56.873 57.538 56.619 55.253 55.056 56.446 56.017 56.809 56.728 58.133 58.095 59.082 56.100 56.042 55.591	57.146 57.067 55.761 59.198 58.722 60.469 61.352 62.754 62.800 61.428 62.418 60.375 60.239 60.891 62.011 58.759 57.989 58.370 56.984 56.382 54.873 57.052 56.974 58.004 55.822 54.657	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	2.07 1.51 2.88 2.14 1.65 0.24 0.51 4.12 5.79 0.36 2.38 0.22 0.08 0.00 0.00 0.13 0.96 2.58 4.64 6.17 7.58 1.31 3.84 0.53	888888888888888888888888888888888888888	O O O O O O O O O O O O O O O O O O O

		,		C76	46.426	54.191	54.623	1.00	0.25		3	C
MOTA			PRO B		45.017	53.767	54.389	1.00	0.00		В	C
MOTA			PRO E		47.269	56.222	55.896	1.00	0.38	1	В	C
MOTA		_	PRO E		47.073	57.157	55.129	1.00	0.00		В	0
MOTA		_	PRO E		48.272		56.766	1.00	2.40		В	N
ATOM			LYS E			57.302	56.855	1.00	3.88		В	C
MOTA	2884		LYS E		49.228		57.616	1.00	2.58		В	C
MOTA	2885		LYS E		50.481		58.354	1.00	2.90		В	C
ATOM	2886		LYS E		51.216		59.445	1.00	1.94		В	С
MOTA	2887	-	LYS E		52.129		58.893	1.00	1.20		В	С
MOTA	2888	_	LYS E		53.421		57.676	1.00	1.15		8	N
ATOM	2889	NZ :	LYS E		53.194		55.446	1.00	4.91		В	С
ATOM	2890	_	LYS I		49.585		55.226	1.00	5.06		В	0
ATOM	2891	0	LYS I		50.097			1.00	6.47		B	N
MOTA	2892	N .	ASP E	3 678	49.331		54.492	1.00	8.82		В	C
ATOM	2893	CA	ASP E	678	49.570		53.102		9.66		В	Č
MOTA	2894	CB	ASP I	B 678	49.808		52.281	1.00	10.29		В	Ċ
ATOM		CG	ASP I	B 678	51.142		52.576	1.00	9.32		В	Ö
ATOM		OD1	ASP I		52.171		52.410	1.00	10.07		В	Ö
ATOM		OD2	ASP I	B 678	51.158		52.978	1.00	9.42		В	č
ATOM		С	ASP I		48.267		52.708	1.00	11.73		В	ō
MOTA		0	ASP I	B 678	47.857		53.363	1.00	9.36		В	N
MOTA		N	GLY 1	в 679	47.595		51.673	1.00	8.28		В	C
ATOM		CA	GLY I	B 679	46.345		51.279	1.00	8.41		В	Č
ATOM		С	GLY 3	в 679	45.522		50.347	1.00	8.68		В	ŏ
ATOM		0	GLY I	в 679	46.001		49.296	1.00	7.98		В	Ŋ
MOTA		N		в 680	44.279		50.729	1.00			В	Ċ
ATOM		CA	LEU :	B 680	43.385		49.913	1.00	7.83		В	Ċ
ATOM		CB	LEU :	B 680	41.935		50.365	1.00	4.74		В	Č
ATOM		CG	LEU	B 680	41.623		51.861	1.00	4.65		В	č
ATOM	2908			в 680	40.157			1.00	4.10			C
ATOM				B 680	41.973		52.563	1.00	3.63		B B	Č
ATOM	2910	C		в 680	43.522		48.452	1.00	7.74			Ö
ATOM	2911	ō		в 680	43.769			1.00	7.99		В	N
ATOM	2912	N		B 681	43.373			1.00	7.37		В	C
ATOM	2913	CA		B 681	43.465	55.862		1.00	5.39		В	C
MOTA	2914	CB	LYS		43.36	L 54.619		1.00	3.99		В	C
ATOM	2915	CG		B 681	44.70	L 53.950		1.00	3.05		В	
	2916	CD	LYS	_	45.104	52.902		1.00			В	C C
ATOM ATOM	2917	CE	LYS		44.229			1.00	0.00		В	
ATOM	2918	NZ	LYS	_	44.242	2 51.147		1.00			В	N
ATOM	2919	C	LYS		42.34	5 56.819		1.00			В	C
	2920	ŏ	LYS		42.13	57.098		1.00			В	0
MOTA	2921	N	SER	_	41.62	5 57.319		1.00			В	N
MOTA	2922	CA	SER		40.52	8 58.233		1.00			В	C
MOTA	2923	CB	SER	_	39.20		46.520	1.00			В	C
MOTA	2924	OG	SER		39.28						В	0
MOTA	2925	C	SER	_	40.49	9 59.349		1.00			В	C
MOTA	2926	Ö	SER		39.45	2 59.927		1.00			В	0
MOTA	2927	N	GLN	_	41.64	7 59.645	48.086				В	N
ATOM	2928	CA	GLN	_	41.74	3 60.696	49.095	1.00			В	C
MOTA	2929	CB	GLN	-	43.21						В	C
MOTA	2930	CG	GLN	_	43.46	6 61.927					B	C
MOTA		CD	GLN		43.12						В	C
MOTA	2932	OE1			43.23						В	0
MOTA	2933	NE2	-	_	42.70	3 59.955					В	N
ATOM ATOM	2934	C	GLN		40.94	4 61.945					В	C
	2935	ŏ	GLN		40.11	5 62.436					В	0
MOTA MOTA	2936	N	GLU		41.20	1 62.454					В	С И
ATOM	2937	ÇA	GLU		40.52						В	C
ATOM	2938	CB	GLU		40.71						В	Ç
	2939	CG		B 684	42.16	7 63.800	45.049				В	
MOTA	2940	CD		B 684	42.43						В	C
ATOM	2941	OE1			41.99						B	0
ATOM	2942	OE2	-	B 684	43.08		2 42.850	1.00			В	0
ATOM	2943	C		B 684	39.05		47.307	1.00			В	C
ATOM		Ö		B 684	38.44		L 47.907				В	0
ATOM	2944			B 685	38.49			1.00			В	N
MOTA	2945	N	LEU		37.10		47.203	1.00			В	C
MOTA	2946	CA	LEU		36.66	·-		1.00	11.58		В	C
ATOM	2947	CB	LEU		36.46	•		1.00	14.23		В	C
ATOM		CG		•	37.81			1.00	15.68		В	C
ATOM	2949			B 685 B 685	35.78				16.24		₿	C
ATOM	2950	CD2		B 685	36.95						B	C
ATOM	2951	C		B 685	36.50			1.0			В	0
ATOM	2952	0		B 686	37.35						В	N
ATOM		N			37.24		_				В	С
ATOM	2954	CA		B 686	38.46			-			В	C
MOTA		CB	PHE	B 686	38.52		_				В	С
ATOM	2956	CG	PHE		37.46						В	С
ATOM		CD1		B 686	39.60			-			В	С
MOTA				B 686				_			В	С
ATOM	2959	CE:	1 PHE	B 686	37.52	JJ.JJ.						

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እ መረጎM	2960	CE2	PHE B	686	39.644	61.038	54.959	1.00	8.39	В	C
MOTA	2961		PHE B	686	38.606	60.534	55.717	1.00	8.56	В	C
MOTA	2962	C	PHE B		37.024	62.303	51.576	1.00	7.17	В	
MOTA	2963	0	PHE B		36.071	62.450	52.355	1.00	6.33	В	0
ATOM	2964		ASP B		37.915	63.265	51.330	1.00	6.64	В	N
ATOM	2965		ASP B		37.845	64.587	51.962	1.00	5.98	В	C
ATOM	2966	CB	ASP B	687	38.769	65.591	51.248	1.00	6.99	В	C
ATOM		CG	ASP B		40.237	65.222	51.338	1.00	8.70	В	C
ATOM	2967		ASP B	687	40.694	64.852	52.443		10.19	В	0
ATOM	2968		ASP B		40.930	65.327	50.302	•	10.15	В	0
ATOM	2969		ASP B		36.436	65.164	51.945	1.00	5.21	В	С
ATOM	2970	C	ASP B	-	35.798	65.333	52.989	1.00	2.60	В	0
ATOM	2971	0	GLU B		35.979	65.484	50.736	1.00	6.03	В	N
ATOM	2972	N	GLU B		34.665	66.065	50.522	1.00	5.79	В	C
MOTA	2973	CA	GLU B		34.421	66.276	49.023	1.00	6.69	В	C
ATOM	2974	CB CG	GLU B		34.959	65.150	48.165	1.00	9.91	В	C
MOTA	2975	CD	GLU B	_	35.014	65.493	46.682		12.88	В	C
ATOM	2976 2977	OE1	GLU B		33.931	65.733	46.085		14.18	В	0
MOTA	2978	OE2			36.139	65.516	46.118		14.35	В	0
ATOM	2979	C	GLU B		33.560	65.225	51.132	1.00	5.08	В	C
ATOM	2980	Ö	GLU B		32.607	65.778	51.673	1.00	5.28	В	0
MOTA	2981	N	ILE B		33.688	63.901	51.072	1.00	4.04	В	N
MOTA	2982	CA	ILE B		32.660	63.036	51.634	1.00	5.68	В	C
ATOM	2983	CB	ILE B		32.717	61.591	51.003	1.00	8.39	В	C
MOTA	2984	CG2	ILE B	_	34.100	61.023	51.107	1.00	9.31	В	C
MOTA		CG1	ILE B	_	31.696	60.660	51.683	1.00	7.28	В	С
ATOM	2985 2986	CD1	ILE B		31.538	59.318	51.001	1.00	5.49	В	C
ATOM	2986 2987	CDI	ILE B		32.742	62.983	53.163	1.00	5.53	В	C
MOTA	2988	Ö	ILE E		31.799	62.567	53.832	1.00	5.75	В	0
ATOM	2989	N	ARG E		33.862	63.418	53.721	1.00	5.70	В	И
ATOM ATOM	2990	CA	ARG E		34.008	63.430	55.172	1.00	5.67	В	C C
ATOM	2991	CB	ARG E		35.470	63.203	55.572	1.00	4.91	В	c
MOTA	2992	CG	ARG E		35.798	63.596	57.013	1.00	3.32	В	c
ATOM	2993	CD	ARG E	_	37.019	62.850	57.542	1.00	1.66	В	N
ATOM	2994	NE	ARG F		37.494	63.386	58.812	1.00	0.00	B B	C
ATOM	2995	CZ	ARG F		38.290	64.444	58.918	1.00	0.00	В	N
ATOM	2996	NH1		8 690	38.710	65.078	57.831	1.00	0.00	В	N
ATOM	2997	NH2			38.656	64.873	60.116	1.00	0.00	В	Ĉ
ATOM	2998	С	ARG E		33.526	64.769	55.710	1.00	6.61	В	ő
ATOM	2999	Ō	ARG E	690	32.605	64.831	56.530	1.00	6.73	В	N
ATOM	3000	N	MET I		34.160	65.840	55.237	1.00	7.37 8.11	В	C
ATOM	3001	CA	MET I	691	33.806	67.189	55.654	1.00	9.61	B	č
ATOM	3002	CB	MET I	3 691	34.579	68.209	54.814	1.00		В	Č
ATOM	3003	CG	MET !		36.082	68.186	55.027	1.00	14.69	В	s
MOTA	3004	SD	MET I		37.006	69.163	53.800	1.00		В	C
ATOM	3005	CE	MET I		38.704	68.671	54.198 55.489	1.00	7.30	В	C
ATOM	3006	С	MET I		32.301	67.399	56.229	1.00	6.23	В	0
ATOM	3007	0	MET I		31.680	68.170	54.526	1.00		В	N
ATOM	3008	N	THR I		31.725	66.681 66.770	54.229	1.00	7.48	В	C
ATOM	3009	CA	THR I		30.302	66.380	52.779	1.00		В	С
MOTA	3010	CB	THR !		29.999	66.923	52.406	1.00		В	0
ATOM	3011	OG1			28.728 29.937	64.849	52.628	1.00		В	C
MOTA	3012	CG2			29.337	65.931	55.116	1.00		В	С
MOTA	3013	С	THR		28.237	65.694	54.772	1.00		В	0
MOTA	3014	0	THR		29.893	65.443	56.234	1.00		В	N
ATOM	3015	И	TYR		29.037	64.702		1.00		В	С
MOTA	3016	CA	TYR		29.514	63.256		1.00		В	С
ATOM	3017	CB	TYR !		28.643	62.307	56.567	1.00		В	С
MOTA	3018	CG	TYR	_	27.384	61.976		1.00		В	С
MOTA	3019	CD1			26.509	61.257		1.00		В	С
ATOM	3020	CE1			29.009	61.875		1.00	0.00	В	C
ATOM	3021		TYR		28.142	61.162		1.00	0.00	В	С
ATOM	3022			в 693 в 693	26.889	60.859			0.00	В	C
MOTA	3023			B 693	25.995	60.178			0.00	В	0
ATOM	3024			B 693	29.128			1.00	4.66	В	C
ATOM	3025			В 693	28.159			1.00	4.49	В	0
ATOM	3026	O N		B 694	30.313						N
ATOM	3027			B 694	30.544			1.00		В	C
ATOM	3028			B 694	31.909			1.00		В	C
ATOM	3029		ILE 2		32.413			1.00		В	C
MOTA TO	3030 3031			B 694	32.893			1.00		В	C
MOTA	3031			B 694	34.271					В	C
ATOM	3032			B 694	29.446		59.725			В	C
MOTA	3033			B 694	28.719	68.163	60.694			В	0
MOTA	3034			B 695	29.323		58.566		_	В	И
MOTA MOTA	3036			B 695	28.304	69.604				В	C
ATOM ATOM	3030		LYS		28.276	70.045				В	C
MOTA	3038			B 695	27.390	71.261				В	C
ATOM	3038			B 695	27.419	71.711				В	C
ATOM	3040			B 695	28.729		54.794	1.00	5.81	В	C
AT OH	2010			-							

					00 500	72 006	53.478	1.00	5.33	В	N
ATOM	3041		LYS B	695	28.593	73.086	58.771	1.00	6.82	В	С
ATOM	3042	_	LYS B	695	26.936	69.051	59.349	1.00	7.82	В	0
ATOM	3043	0	LYS B	695	26.113	69.764		1.00	4.95	В	N
ATOM	3044	N	GLU B	696	26.701	67.778	58.467	1.00	4.52	В	Ċ
ATOM	3045	CA	GLU B	696	25.440	67.141	58.803		5.55	В	Č
ATOM	3046	CB	GLU B	696	25.348	65.764	58.154	1.00		В	č
ATOM	3047		GLU B	696	23.935	65.246	58.008	1.00	5.27	В	C
ATOM	3048		GLU B	696	23.094	66.164	57.143	1.00	5.89		
ATOM	3049		GLU B	696	23.575	66.553	56.052	1.00	5.79	В	0
ATOM	3050		GLU B	696	21.957	66.493	57.552	1.00	5.89	В	0
-	3051		GLU B	696	25.357	67.006	60.312	1.00	4.52	В	C
ATOM		_	GLU B	696	24.267	66.951	60.877	1.00	4.75	В	0
MOTA	3052	_	LEU B	697	26.515	66.927	60.964	1.00	4.74	В	N
ATOM	3053	N	_	697	26.560	66.837	62.422	1.00	3.38	В	С
MOTA	3054	CA			27.911	66.278	62.896	1.00	2.21	В	С
MOTA	3055	CB	LEU B	697	28.264	66.292	64.394	1.00	1.22	В	С
MOTA	3056	CG	LEU B	697	27.194	65.613	65.199	1.00	0.00	В	C
ATOM	3057	•	LEU B		29.589	65.604	64.617	1.00	0.45	В	C
ATOM	3058		TEO B	697		68.273	62.902	1.00	3.38	В	С
ATOM	3059	С	LEU B		26.380	68.518	63.986	1.00	3.61	В	0
ATOM	3060	0	LEU B		25.852		62.066	1.00	2.53	В	N
MOTA	3061	N	GLY B		26.822	69.213		1.00	4.48	В	C
ATOM	3062	CA	GLY B		26.703	70.626	62.370	1.00	4.73	В	c
ATOM	3063	C	GLY B	698	25.299	71.122	62.057	1.00	4.58	В	Ö
ATOM	3064	0	GLY B	698	25.091	72.232	61.548		3.99	В	Ŋ.
ATOM	3065	N	LYS B	699	24.328	70.269	62.355	1.00		В	Ċ
ATOM	3066	CA	LYS B	699	22.921	70.569	62.150	1.00	4.96	В	č
ATOM	3067	CB	LYS B	699	22.481	70.113	60.762	1.00	5.53		Č
ATOM	3068	CG	LYS B	699	23.143	70.858	59.621	1.00	4.15	В	Ċ
ATOM	3069	CD	LYS B	699	22.555	70.434	58.282	1.00	3.04	В	c
ATOM	3070	CE	LYS B	699	23.091	71.310	57.168	1.00	3.26	В	
ATOM	3071	NZ	LYS B		22.909	72.756	57.502	1.00	2.13	В	N
ATOM	3072	C	LYS B		22.227	69.752	63.219	1.00	5.61	В	C
ATOM	3073	ŏ	LYS B		21.105	70.032	63.632	1.00	5.25	В	0
	3073	N	ALA B		22.957	68.739	63.665	1.00	6.56	B	N
ATOM	3075	CA	ALA B		22.521	67.801	64.684	1.00	5.10	В	C
ATOM		CB	ALA B		23.506	66.624	64.743	1.00	5.71	В	C
ATOM	3076		ALA B		22.432	68.482	66.042	1.00	3.16	B	С
MOTA	3077	C	ALA B		21.549	68.168	66.845	1.00	3.56	В	0
MOTA	3078	0	ILE B		23.368	69.394	66.293	1.00	0.09	В	N
ATOM	3079	N	ILE B		23.408	70.142	67.540	1.00	0.00	В	С
ATOM	3080	CA			24.775	70.757	67.782	1.00	0.00	В	C
ATOM	3081	CB	ILE B		24.771	71.501	69.107	1.00	0.00	В	С
MOTA	3082	CG2			25.848	69.665	67.736	1.00	0.00	В	С
MOTA	3083	CG1	ILE B		27.263	70.193	67.810	1.00	0.00	В	С
ATOM	3084	CD1	ILE B		22.412	71.263	67.383	1.00	0.27	В	C
MOTA	3085	C	ILE B		21.834	71.747	68.352	1,00	0.51	В	0
MOTA	3086	0	ILE B		22.236	71.679	66.135	1.00	0.95	В	N
MOTA	3087	N	VAL B		21.279	72.713	65.802	1.00	0.00	В	С
ATOM	3088	CA	VAL B			72.924	64.273	1.00	0.00	В	С
MOTA	3089	CB	VAL E		21.210	73.672	63.895	1.00	0.00	В	С
MOTA	3090	CG1	VAL E		19.961	73.686	63.815	1.00	0.00	В	С
MOTA	3091	CG2	VAL E		22.429	72.155	66.313	1.00	0.00	В	С
MOTA	3092	С	VAL E		19.967	72.133	67.411	1.00	0.85	В	0
ATOM	3093	0	VAL E		19.546		65.518	1.00	0.31	В	N
ATOM	3094	N	LYS E		19.366	71.267 70.604	65.823	1.00	1.08	В	C
ATOM	3095	CA	LYS E		18.096		-	1.00	0.26	В	C
ATOM	3096	CB	LYS E		18.094	69.201	65.229	1.00	0.13	В	C
ATOM	3097	CG	LYS E		18.257	69.136	63.735	1.00	0.00	В	C
ATOM	3098	CD	ras i		16.931	69.311	63.033	1.00	0.00	B	č
ATOM	3099	CE	LYS E		15.996	68.144	63.305	1.00	1.13	В	N
ATOM	3100	NZ	LYS E		14.704	68.283	62.569		2.26	В	C
MOTA	3101	С	LYS E		17.832	70.485	67.315	1.00		В	ŏ
ATOM	3102	0	LYS F	3 703	16.847	71.013	67.842	1.00	2.34	_	Ŋ
MOTA	3103	N	ARG F		18.728	69.779	67.990	1.00	2.65	В	C
ATOM	3104	CA	ARG F		18.611	69.547		1.00	3.64	В	C
MOTA	3105	CB	ARG F		19.887	68.918	69.924	1.00	0.40	В	
ATOM	3106	CG	ARG I		20.220	67.666		1.00	1.83	В	C
ATOM	3107	CD	ARG I		19.070	66.659			2.99	В	C
' ATOM	3108	NE	ARG I		18.300	66.463			3.97	В	N
ATOM	3109	CZ	ARG I		17.032	66.071	68.053		5.49	В	C
ATOM	3110	NH1			16.391	65.834	-69.188	1.00	5.67	В	
	3111	NH2			16.409			1.00	6.40	В	
ATOM	3112	C	ARG I		18.303	70.795			5.20	В	
MOTA		0		B 704	18.081				6.25	В	
MOTA	3113			B 705	18.300				7.79	В	
ATOM	3114	N		В 705 В 705	18.016				10.11	В	
MOTA	3115	CA		B 705	18.441				8.13	В	
ATOM	3116				19.905				4.29	В	
MOTA	3117			B 705	20.237				2.54	В	
MOTA	3118	CD		B 705	21.444				1.25	В	
ATOM	3119	OE1		B 705	19.289				1.18	В	
MOTA	3120			B 705					12.33	В	С
MOTA	3121	С	GLU	B 705	18.703	13.473	55.550	2,00			

						75.154	68.615	1.00	13.95	В	0
MOTA	3122	0		705	18.041 20.018	74.573	69.585		14.16	В	N
ATOM	3123		GLY B	706	20.818	75.636	68.965		13.17	В	C
ATOM	3124	CA	GLY B	706 706	21.857	76.300	69.884		12.57	В	C
ATOM	3125	C	GLY B	706	22.468	75.630	70.715		13.32	В	0
MOTA	3126	0		707	22.061	77.612	69.721	1.00	10.85	В	N
ATOM	3127	N	• • •	707	22.995	78.429	70.522	1.00	9.37	В	C
ATOM	3128	CA	ASN B	707	22.807	78.163	72.024	1.00	4.43	В	C
ATOM	3129	CB CG	ASN B	707	23.283	79.332	72.907	1.00	1.14	В	C
ATOM ATOM	3130 3131	OD1	ASN B	707	23.256	79.231	74.138	1.00	0.00	В	0
ATOM	3132	ND2	ASN B	707	23.703	80.445	72.285	1.00	0.00	В	N
ATOM	3133	C	ASN B	707	24.453	78.209	70.168		10.22	В	C
ATOM	3134	Ō	ASN B	707	25.072	77.304	70.704	1.00	9.72	В	O N
ATOM	3135	N	SER B	708	24.999	79.053	69.287		11.07	B B	C
ATOM	3136	CA	SER B	708	26.402	78.946	68.848		10.55	В	C
ATOM	3137	CB	SER B	708	26.818	80.153	68.011		10.18 9.62	В	Ö
ATOM	3138	OG	SER B	708	28.167	80.022	67.597	1.00 1.00	9.02	В	Č
MOTA	3139	C	SER B	708	27.417	78.766	69.964 69.871		11.36	В	Ö
ATOM	3140	0	SER B	708	28.271	77.897 79.589	71.007	1.00	8.07	В	N
ATOM	3141	N	SER B	709	27.351	79.333	72.128	1.00	6.88	В	C
ATOM	3142	CA	SER B	709	28.280 28.008	80.479	73.223	1.00	5.22	В	C
ATOM	3143	CB	SER B	709	28.387	81.783	72.807	1.00	0.00	В	0
ATOM	3144	OG	SER B	709 709	28.102	78.006	72.681	1.00	7.90	В	С
ATOM	3145	C	SER B	709	28.894	77.539	73.494	1.00	7.38	В	0
ATOM	3146	0	GLN B	710	27.035	77.344	72.231	1.00	9.50	В	N
MOTA	3147	N CA	GLN B	710	26.716	75.960	72.592	1.00	10.39	В	C
ATOM	3148 3149	CB	GLN B	710	25.340	75.863	73.308		10.55	В	C
ATOM ATOM	3150	CG	GLN B		25.315	76.239	74.818		10.48	В	C
ATOM	3151	CD	GLN B		24.160	75.571	75.621		11.08	В	С
ATOM	3152	OE1	GLN B		23.957	75.858	76.811		10.52	В	0
ATOM	3153	NE2	GLN B	710	23.416	74.681	74.969		11.14	B B	N C
ATOM	3154	C	GLN B	710	26.715	75.108	71.288	- •	10.56	B	Ö
ATOM	3155	0	GLN B	710	26.650	73.871	71.334		10.61 9.99	В	N
ATOM	3156	N	asn b		26.789	75.790	70.139	1.00 1.00	9.16	В	Ċ
ATOM	3157	ÇA	ASN B		26.816	75.156	68.811	1.00	8.67	В	Ç
ATOM	3158	CB	ASN B		26.449	76.162	67.702 67.491	1.00	10.16	В	Č
MOTA	3159	CG	ASN B		24.950	76.295 77.064	66.639	1.00	10.33	В	0
ATOM	3160	OD1	ASN B		24.496	75.540	68.260	1.00	9.68	В	N
MOTA	3161	ND2	ASN B		24.173 28.224	74.648	68.535	1.00	8.24	В	C
ATOM	3162	C	ASN B		28.421	73.549	68.002	1.00	9.11	В	0
MOTA	3163	0	ASN B		29.195	75.490	68.869	1.00	6.81	В	N
ATOM	3164	N CD	TRP B		30.594	75.169	68.697	1.00	5.94	В	C
MOTA	3165 3166	CA CB	TRP B		31.303	76.280	67.901	1.00	3.07	В	C
MOTA	3167	CG	TRP B		31.301	76.034	66.393	1.00	3.11	В	C
ATOM ATOM	3168	CD2	TRP B		30.732	76.868	65.375	1.00	1.42	В	C
ATOM	3169	CE2	TRP B		30.958	76.227	64.130	1.00	0.18	В	C
ATOM	3170	CE3		712	30.054	78.094	65.391	1.00	2.04	B B	C
ATOM	3171	CD1	TRP B	712	31.835	74.952	65.735	1.00	2.07 0.40	В	N
ATOM	3172	NE1	TRP B		31.631	75.063	64.381	1.00	0.00	В	Ċ
MOTA	3173	CZ2			30.530	76.767	62.918 64.174	1.00	2.40	В	Ċ
MOTA	3174	CZ3			29.624	78.638	62.955	1.00	1.97	В	C
MOTA	3175	CH2			29.867 31.184	77.970 74.983	70.095	1.00	6.35	В	C
ATOM	3176	C	TRP B		32.350	75.276	70.346	1.00	5.67	В	0
MOTA	3177	0	TRP B		30.337	74.480	70.996	1.00	7.11	В	N
MOTA	3178	N	GLN B		30.682	74.192	72.397	1.00	6.46	В	С
MOTA	3179 3180	CA CB	GLN B		29.889	75.111	73.329	1.00	4.90	В	С
MOTA	3181	CG	GLN B		30.613	75.478	74.624	1.00	4.23	В	C
ATOM ATOM	3182	CD	GLN B		30.752	74.322	75.597	1.00	2.92	В	C
ATOM	3183	OE1			31.671	74.298	76.421	1.00	0.00	В	0
ATOM	3184	NE2			29.827	73.366	75.520	1.00	2.38	В	N C
ATOM	3185	C	GLN E		30.338	72.717	72.706	1.00	6.53	B B	0
ATOM	3186	0	GLN E		30.963	72.062	73.544	1.00	6.06	В	N
ATOM	3187	N	ARG E		29.323	72.209	72.023	1.00	5.38 5.07	В	C
ATOM	3188	CA	ARG E		28.914	70.829	72.191	1.00	6.07	В	č
ATOM	3189	CB	ARG E		27.397	70.688	72.054	1.00 1.00		В	Č
ATOM	3190	ÇG	ARG E		26.896	69.335	72.499	1.00	5.08	В	Č
ATOM	3191	CD	ARG E		25.455	69.114	72.131 72.311	1.00	2.45	B.	N
ATOM	3192	NE		3 714	25.107	67.711	73.487	1.00	_	В	C
MOTA	3193	CZ	ARG E		25.072	67.098 67.762	74.601	1.00		В	N
ATOM	3194	NH1			25.356 24.768	65.814	73.541	1.00		В	N
MOTA	3195	NH2			29.598	70.095	71.067	1.00		В	C
MOTA	3196	C	ARG E		30.019	68.956	71.213	1.00		В	0
ATOM	3197	O N	ARG E	3 714 3 715	29.706	70.759	69.929			В	N
ATOM	3198	N CA		3 715	30.384	70.139	68.817	1.00	3.39	B	C
ATOM	3199 3200	CB		3 715	30.523	71.064	67.630	1.00		В	C
ATOM	3200	CG		3 715	31.399	70.505	66.567	1.00		В	C
ATOM ATOM	3202	CD1		3 715	30.858	69.805	65.513	1.00	0.00	В	С
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ATOM			_		cc c20	1.00 0.82	В	C	
ALUM	3203	CD2 PHE B 715	32.780	70.655	66.639		В	Č	
ATOM	3204	CE1 PHE B 715	31.674	69.261	64.539		В	c	
ATOM	3205	CE2 PHE B 715	33.610	70.113	65.669	1.00 0.11		C	
ATOM	3206	CZ PHE B 715	33.053	69.415	64.615	1.00 0.16	В		
	3207	C PHE B 715	31.761	69.854	69.333	1.00 4.65	В	C	
MOTA			32.459	68.983	68.829	1.00 3.77	В	0	
MOTA	3208		32.182	70.623	70.324	1.00 6.63	B	N	
ATOM	3209	N TYR B 716	33.486	70.349	70.872	1.00 7.92	В	С	
ATOM	3210	CA TYR B 716		71.465	71.761	1.00 6.92	В	С	
ATOM	3211	CB TYR B 716	33.990		72.378	1.00 8.08	В	С	
ATOM	3212	CG TYR B 716	35.299	71.058		1.00 7.50	В	C	
MOTA	3213	CD1 TYR B 716	35.361	70.563	73.677		В	Č	
ATOM	3214	CE1 TYR B 716	36.554	70.102	74.211	1.00 7.63		Č	
MOTA	3215	CD2 TYR B 716	36.469	71.081	71.629	1.00 7.55	В		
		CE2 TYR B 716	37.660	70.621	72.155	1.00 8.05	В	С	
MOTA	3216		37.694	70.136	73.444	1.00 8.52	В	С	
MOTA	3217		38.883	69.710	73.967	1.00 9.86	₿	0	
ATOM	3218	OH TYR B 716	33.386	69.075	71.696	1.00 7.95	B	С	
MOTA	3219	C TYR B 716		68.132	71.494	1.00 10.20	В	0	
ATOM	3220	O TYR B 716	34.155		72.626	1.00 6.46	В	N	
ATOM	3221	N GLN B 717	32.438	69.047		1.00 5.43	В	С	
MOTA	3222	CA GLN B 717	32.243	67.878	73.466		В	C	
ATOM	3223	CB GLN B 717	31.111	68.150	74.438		В	Č	
ATOM	3224	CG GLN B 717	31.448	69.250	75.397	1.00 4.00		C	
	3225	CD GLN B 717	32.885	69.145	75.858	1.00 3.08	В		
ATOM		OE1 GLN B 717	33.397	68.044	76.106	1.00 1.83	В	0	
MOTA	3226		33.549	70.290	75.976	1.00 3.63	В	N	
MOTA	3227		31.968	66.606	72.662	1.00 5.10	В	С	
MOTA	3228	C GLN B 717	32.465	65.535	72.998	1.00 5.64	В	0	
MOTA	3229	O GLN B 717		66.724	71.598	1.00 4.88	В	N	
ATOM	3230	N LEU B 718	31.182		70.759	1.00 4.55	В	С	
MOTA	3231	CA LEU B 718	30.890	65.570			В	С	
ATOM	3232	CB LEU B 718	29.726	65.865	69.814		В	Č	
ATOM	3233	CG LEU B 718	28.323	65.978	70.424	1.00 3.81		Č	
ATOM	3234	CD1 LEU B 718	27.312	66.266	69.310	1.00 3.13	В		
	3235	CD2 LEU B 718	27.970	64.693	71.158	1.00 3.26	В	C	
ATOM		C LEU B 718	32.111	65.134	69.946	1.00 4.69	В	C	
MOTA	3236		32.229	63.975	69.589	1.00 5.53	В	0	
ATOM	3237		33.010	66.063	69.634	1.00 4.08	В	N	
ATOM	3238	N THR B 719	34.216	65.711	68.887	1.00 2.90	В	С	
MOTA	3239	CA THR B 719		66.871	67.986	1.00 2.25	В	С	
ATOM	3240	CB THR B 719	34.709	67.000	66.867	1.00 0.00	В	0	
MOTA	3241	OG1 THR B 719	33.829		67.460	1.00 1.41	В	С	
MOTA	3242	CG2 THR B 719	36.118	66.599		1.00 3.68	В	С	
ATOM	3243	C THR B 719	35.276	65.340	69.916 69.583		В	Ō	
			26 420	CE DED	EU				
АТОМ	3244	O THR B 719	36.429	65.050		1.00 3.77			
MOTA MOTA	3244 3245	O THR B 719 N LYS B 720	34.854	65.336	71.177	1.00 3.64	В	N	
ATOM	3245	N LYS B 720			71.177 72.278	1.00 3.64 1.00 4.68	B B	C N	
ATOM ATOM	3245 3246	N LYS B 720 CA LYS B 720	34.854 35.731	65.336	71.177	1.00 3.64 1.00 4.68 1.00 4.92	B B B	C C	
ATOM ATOM ATOM	3245 3246 3247	N LYS B 720 CA LYS B 720 CB LYS B 720	34.854 35.731 35.302	65.336 64.969 65.690	71.177 72.278	1.00 3.64 1.00 4.68	B B B	N C C	
MOTA MOTA MOTA MOTA	3245 3246 3247 3248	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720	34.854 35.731 35.302 36.318	65.336 64.969 65.690 65.634	71.177 72.278 73.555 74.661	1.00 3.64 1.00 4.68 1.00 4.92	B B B B	и С С	
MOTA MOTA MOTA MOTA	3245 3246 3247 3248 3249	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720	34.854 35.731 35.302 36.318 37.574	65.336 64.969 65.690 65.634 66.396	71.177 72.278 73.555 74.661 74.288	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28	B B B	N C C	
MOTA MOTA MOTA MOTA MOTA	3245 3246 3247 3248 3249 3250	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720	34.854 35.731 35.302 36.318 37.574 38.617	65.336 64.969 65.690 65.634 66.396 66.334	71.177 72.278 73.555 74.661 74.288 75.414	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57	B B B B	и С С	
MOTA MOTA MOTA MOTA	3245 3246 3247 3248 3249 3250 3251	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720	34.854 35.731 35.302 36.318 37.574 38.617 38.118	65.336 64.969 65.690 65.634 66.396 66.334 66.864	71.177 72.278 73.555 74.661 74.288 75.414 76.727	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22	B B B B B	и С С	
MOTA MOTA MOTA MOTA MOTA	3245 3246 3247 3248 3249 3250 3251 3252	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20	B B B B B	и С С С С	
MOTA MOTA MOTA MOTA MOTA MOTA MOTA	3245 3246 3247 3248 3249 3250 3251	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84	B B B B B B	N C C C C C Z C O	
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	3245 3246 3247 3248 3249 3250 3251 3252	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 NZ LYS B 720	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57	B B B B B B	иссссисои	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005	65.336 64.969 65.690 65.634 66.334 66.864 63.455 62.711 63.010 61.593	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.98	B B B B B B B B B	иссссисоис	
MOTA MOTA MOTA MOTA MOTA MOTA MOTA MOTA	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 5.98 1.00 5.57	B B B B B B B B B B B B	NCCCCCCCCCCCC	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.98 1.00 5.57 1.00 6.62	B B B B B B B B B B B B	иссссисоисс	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CG LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.429	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68	B B B B B B B B B B B B B	исссоисоиссс	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CG LEU B 721 CG LEU B 721 CD1 LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.429 59.755	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.90	8 8 8 8 8 8 8 8 8 8 8 8 8	иссосисои сосоои сосоои сосоои сосои сосои сосои сосои сосои сосои сосои сосои сосои с	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CG LEU B 721 CD1 LEU B 721 CD2 LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392	65.336 64.969 65.690 65.634 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.429 59.755 60.890	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.98 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.67	B	NCCCCRCCRCCCCC	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CG LEU B 721 CD1 LEU B 721 CD2 LEU B 721 CD2 LEU B 721 CD2 LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.429 59.755	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660	1.00 3.64 1.00 4.68 1.00 4.92 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.90 1.00 5.59	B	иссосисоисососо	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CG LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.429 59.755 60.890	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.67 1.00 5.59 1.00 5.59 1.00 5.59 1.00 5.59	888888888888888888888888888888888888888	исссоисоисссои	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CG LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.429 59.755 60.890 60.193 61.090	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.67 1.00 5.59 1.00 5.59 1.00 5.59 1.00 5.59 1.00 5.59	8888888888888888	иссосисоиссосоис	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CG LEU B 721 CD1 LEU B 721 CD2 LEU B 721 CD2 LEU B 721 C LEU B 722 CA LEU B 722	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.429 59.755 60.890 60.193 61.090 60.485	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.67 1.00 5.59 1.00 5.59 1.00 5.59 1.00 5.59	888888888888888888888888888888888888888	NOCOCOROOROCOCOCO	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 722 CA LEU B 722 CA LEU B 722	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.429 59.755 60.890 60.193 61.090 60.485 61.102	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.90 1.00 5.57 1.00 5.90 1.00 5.59 1.00 5.59 1.00 4.94 1.00 2.16 1.00 1.76	8888888888888888	NUCUCUCACONUCUCUCONOCO	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 722 CA LEU B 722	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.755 60.890 60.193 61.090 60.485 61.102 60.891	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.67 1.00 5.67 1.00 5.59 1.00 5.59 1.00 5.70 1.00 5.70 1.00 5.70 1.00 6.62 1.00 6.68 1.00 5.70 1.00 5.70	888888888888888888888888888888888888888	иссосиосососоисси	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3261 3262 3263 3264 3265 3266	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 NZ LYS B 720 C LYS B 720 O LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CG LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 722 CA LEU B 722 CA LEU B 722 CA LEU B 722 CB LEU B 722 CG LEU B 722 CG LEU B 722 CG LEU B 722	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.67 1.00 5.70 1.00 5.70	888888888888888888888888888888888888888	NUCUCUCACONUCUCUCONOCO	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3266 3267	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 722 CA LEU B 722 CD1 LEU B 722 CD1 LEU B 722 CD1 LEU B 722 CD2 LEU B 722	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 67.326	1.00 3.64 1.00 4.68 1.00 4.92 1.00 5.28 1.00 5.20 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.90 1.00 5.57 1.00 5.57 1.00 6.62 1.00 5.57 1.00 5.90 1.00 5.70 1.00 5.70	888888888888888888888888888888888888888	מטטטטטמטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3267 3268	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 722 CA LEU B 722 CA LEU B 722 CA LEU B 722 CA LEU B 722 CB LEU B 722 CD1 LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD1 LEU B 722 CD2 LEU B 722	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 67.326 69.087	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.57 1.00 6.68 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 6.62 1.00 5.67 1.00 5.59 1.00 5.59 1.00 5.67 1.00 5.67 1.00 5.67 1.00 5.67 1.00 5.67 1.00 5.69 1.00 0.00 1.00 0.00 1.00 0.69	888888888888888888888888888888888888888	NUUUUNAUUUUUUUUUNAUUUUUUU	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3266 3267	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CA LEU B 721 CD1 LEU B 721 CD1 LEU B 721 C LEU B 722 CA LEU B 722 CB LEU B 722 CC LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD2 LEU B 722 CD2 LEU B 722 CD2 LEU B 722 CD3 LEU B 722 CD3 LEU B 722 CD4 LEU B 722 CD5 LEU B 722 CD6 LEU B 722 CD7 LEU B 722 CD8 LEU B 722 CD9 LEU B 722	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 69.087 68.354	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 5.20 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.57 1.00 5.67 1.00 5.67 1.00 5.59 1.00 1.76 1.00 1.76 1.00 0.00 1.00 0.00 1.00 0.69 1.00 2.70	***************************************	иссосироиссосоиссионесои поста по	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3267 3268	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CA LEU B 721 CD1 LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 722 CA LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD2 LEU B 722 CD3 LEU B 722 CD4 LEU B 722 CD5 LEU B 722 CD6 LEU B 722 CD7 LEU B 722 CD8 LEU B 722 CD9 LEU B 722	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.897 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049 61.568	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 67.326 69.087 68.354 69.956	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.57 1.00 6.68 1.00 5.67 1.00 5.59 1.00 5.67 1.00 5.7 1.00 5.67 1.00 5.67 1.00 5.7 1.00 5.67 1.00 6.62	***************************************	zoccoccoccoccoccoz	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3261 3262 3263 3264 3265 3267 3268 3269 3270	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CG LEU B 721 CG LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CA LEU B 722 CA LEU B 722 CA LEU B 722 CB LEU B 722 CG LEU B 722 CG LEU B 722 CG LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD2 LEU B 722 CD3 LEU B 722 CD4 LEU B 722 CD6 LEU B 722 CD7 LEU B 722 CD8 LEU B 722 CD9 LEU B 723 CA ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049 61.568 61.795	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 69.087 68.354 69.956 70.086	1.00 3.64 1.00 4.68 1.00 4.64 1.00 5.28 1.00 6.57 1.00 7.22 1.00 5.20 1.00 5.84 1.00 5.57 1.00 5.57 1.00 6.62 1.00 6.68 1.00 5.57 1.00 5.57 1.00 5.59 1.00 5.59 1.00 5.59 1.00 5.67 1.00 5.59 1.00 5.67 1.00 5.67	888888888888888888888888888888888888888	NOUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3261 3262 3263 3264 3265 3266 3267 3268 3269 3270 3271	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CA LEU B 721 CD1 LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 722 CA LEU B 722 CB LEU B 722 CC LEU B 722 CD LEU B 723 CA ASP B 723 CA ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339 38.599	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.525 59.419 60.676 60.049 61.568 61.795 63.220	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 69.087 68.354 69.956 70.569	1.00	***************************************	NO NO O O O O O O O O O O O O O O O O O	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3260 3261 3262 3263 3264 3265 3267 3268 3269 3271 3272	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CA LEU B 721 CD1 LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 722 CA ASP B 723 CA ASP B 723 CA ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.107	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 67.326 69.087 68.354 69.956 70.569 69.475	1.00		מטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3259 3261 3262 3263 3264 3265 3267 3268 3269 3271 3272 3273	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CG LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CB LEU B 722 CD LEU B 723 CA ASP B 723 CA ASP B 723 CB ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339 38.599	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.107 64.029	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 67.326 69.087 68.354 69.956 70.086 70.569 69.475 68.350	1.00	***************************************	מטטטטמטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3261 3262 3263 3264 3265 3266 3267 3268 3269 3271 3272 3273 3274	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CG LEU B 721 CD1 LEU B 721 C LEU B 722 CA LEU B 722 CB LEU B 722 CB LEU B 722 CCB LEU B 723 CCB ASP B 723 CCB ASP B 723 CCB ASP B 723 CCB ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339 38.599 39.140 38.599	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.107 64.029	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.660 70.169 69.015 67.712 67.372 66.045 67.326 69.087 68.354 69.956 70.569 69.475 68.350 69.744	1.00	***************************************		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3269 3261 3262 3263 3264 3265 3266 3267 3268 3269 3270 3271 3272 3273 3274 3275	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 721 CA LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CB LEU B 722 CB LEU B 722 CC LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD2 LEU B 722 CD3 LEU B 723 CC LEU B 723 CC ASP B 723 CC ASP B 723 CC ASP B 723 CC ASP B 723 CD1 ASP B 723 CD2 ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339 38.599 40.096	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.875	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.579 72.437 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 67.326 69.087 68.354 69.956 70.569 69.475 68.350 69.744 71.050	1.00	***************************************		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3261 3262 3263 3264 3265 3266 3267 3268 3270 3271 3272 3273 3274 3275 3276	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 721 CA LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CB LEU B 722 CD1 LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD2 LEU B 722 CD3 LEU B 723 CA ASP B 723 CA ASP B 723 CCB ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.599 40.096 38.929	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.029 64.875 60.781	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 69.087 68.354 69.956 70.569 69.744 71.050	1.00	***************************************		
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3261 3262 3263 3264 3265 3266 3267 3268 3269 3271 3272 3273 3274 3275 3277	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD1 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CB LEU B 722 CC LEU B 723 CC ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339 38.599 39.140 38.599 40.086	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.875 60.377	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 69.087 68.354 69.956 70.086 70.569 69.475 68.350 69.744 71.050 70.907	1.00	***************************************	NOUUUN NOUUUUN NOUUUUUN NOUUUUN NOUUUUN NOUUUUN NOUUUUN NOUUUUN NOUUUN NOUUN NOUU	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3262 3263 3264 3265 3266 3267 3268 3269 3270 3271 3272 3273 3274 3275 3277 3278	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 O LYS B 720 N LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD1 LEU B 721 CD1 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA ASP B 723 CA ASP B 723 CA ASP B 723 OD1 ASP B 723 OD2 ASP B 723 OD3 ASP B 723 O ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.599 39.140 38.599 40.096 38.929 40.086 38.119	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.525 59.419 60.891 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.875 60.373	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.579 72.437 72.511 72.317 72.465 73.874 72.188 71.405 71.660 70.169 69.015 67.712 67.372 66.045 67.326 69.087 68.354 69.956 70.569 70.569 70.569 70.569 70.507 72.027	1.00	***************************************	ממסטטטטמטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3261 3262 3263 3264 3265 3266 3267 3268 3271 3272 3273 3274 3275 3277 3278 3277 3278 3277 3278	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 721 CA LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CG LEU B 722 CG LEU B 722 CG LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD3 CA ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.005 32.514 32.079 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.479 37.231 36.917 38.599 40.086 38.599 40.086 38.528	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.102 60.891 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.875 60.377 64.029 64.875 60.377 60.373 59.388	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.660 70.169 69.015 67.712 67.372 66.045 67.326 69.087 68.354 69.956 70.086 70.569 69.475 68.354 71.050 70.907 72.027 73.023	1.00	***************************************	מסטסטסטסטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3264 3265 3264 3265 3266 3267 3268 3269 3271 3272 3273 3274 3275 3276 3277 3278 3278 3278 3278 3278 3278	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 721 CA LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CB LEU B 722 CB LEU B 722 CC LEU B 722 CD1 LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD2 LEU B 722 CD3 LEU B 722 CD4 LEU B 722 CD6 LEU B 722 CD7 LEU B 722 CD8 LEU B 722 CD9 LEU B 722 CD1 LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD3 LEU B 723 CA ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339 38.599 40.086 38.929 40.086 38.528 37.854	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.107 64.029 64.875 60.377 60.373 59.388 59.702	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.660 70.169 69.015 67.712 66.045 67.326 69.087 68.354 69.956 70.569 69.475 68.354 71.050 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569 70.569	1.00	***************************************	ממסטטטטמטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	•
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3261 3262 3263 3264 3265 3266 3267 3272 3273 3274 3275 3276 3277 3278 3279 3279 3280 3281	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CA LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CG LEU B 722 CA ASP B 723 CA ASP B 72	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.005 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.599 40.096 38.599 40.096 38.519 38.528 37.854 36.451	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.352 59.429 59.755 60.890 60.193 61.090 60.485 61.090 60.485 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.107 64.029 64.875 60.377 60.373 59.388 59.702	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.660 70.169 69.015 67.712 67.372 66.045 69.087 68.354 69.956 70.907 72.027 73.023 74.232	1.00	***************************************	סטטמטטמטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3264 3265 3264 3265 3266 3267 3268 3269 3271 3272 3273 3274 3275 3276 3277 3278 3278 3278 3278 3278 3278	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 720 N LEU B 721 CA LEU B 721 CA LEU B 721 CD1 LEU B 721 CD2 LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CG LEU B 722 CG LEU B 722 CG LEU B 722 CG LEU B 722 CA ASP B 723	34.854 35.731 35.302 36.318 37.574 38.617 38.617 38.549 34.312 34.005 32.514 32.079 32.392 30.603 34.770 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.339 38.599 40.096 38.599 40.096 38.528 37.854 36.451 38.211	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.593 61.593 60.193 61.090 60.485 61.090 60.485 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.875 60.373 69.389 69.399 69.389 69	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.660 70.169 69.015 67.712 67.372 66.045 69.086 70.569 69.354 69.956 70.569	1.00	***************************************	מסטסטסטסטטטטטטטטטטטטטטטטטטטטטטטטטטטטטטט	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3245 3246 3247 3248 3249 3250 3251 3252 3253 3254 3255 3256 3257 3258 3261 3262 3263 3264 3265 3266 3267 3272 3273 3274 3275 3276 3277 3278 3279 3279 3280 3281	N LYS B 720 CA LYS B 720 CB LYS B 720 CG LYS B 720 CD LYS B 720 CE LYS B 720 CE LYS B 720 C LYS B 721 CA LEU B 721 CA LEU B 721 CB LEU B 721 CD1 LEU B 721 C LEU B 721 C LEU B 721 C LEU B 722 CA LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD1 LEU B 722 CD2 LEU B 722 CD3 CA ASP B 723 CA ASP	34.854 35.731 35.302 36.318 37.574 38.617 38.118 35.567 36.549 34.005 32.392 30.603 34.770 35.740 34.330 34.983 34.472 33.008 32.697 32.733 36.479 37.231 36.917 38.599 40.096 38.599 40.096 38.519 38.528 37.854 36.451	65.336 64.969 65.690 65.634 66.396 66.334 66.864 63.455 62.711 63.010 61.593 61.593 61.593 60.193 61.090 60.485 61.090 60.485 61.525 59.419 60.676 60.049 61.568 61.795 63.220 64.875 60.373 69.389 69.399 69.389 69	71.177 72.278 73.555 74.661 74.288 75.414 76.727 72.437 72.579 72.401 72.511 72.317 72.465 73.874 72.188 71.660 70.169 69.015 67.712 67.372 66.045 69.086 70.569 69.354 69.956 70.569	1.00	***************************************	00000000000000000000000000000000000000	

						22 222	57.763	71.278	1.00	0.88		В	N
MOTA	3284	•-			725	38.003	56.477	70.651	1.00	2.25		В	С
MOTA	3285				725	37.677	_	69.365	1.00	1.01		В	С
MOTA	3286	CB 1	MET :		725	36.884	56.723	69.188	1.00	0.00		В	С
ATOM	3287	CG 1	MET :		725	35.673	55.837		1.00	0.00		В	S
ATOM	3288	SD :	MET :		725	34.481	56.042	70.509	1.00	0.00		В	C
ATOM	3289	CE :	MET :	В '	725	34.683	54.584	71.419		3.98		В	C
ATOM	3290	C	MET :	В	725	38.907	55.632	70.311	1.00			В	ō
ATOM	3291	0	MET	в '	725	39.003	54.462	70.705	1.00	4.97		В	N
ATOM	3292		HIS	в '	726	39.835	56.218	69.559	1.00	5.71		В	Č
ATOM	3293				726	41.058	55.517	69.167	1.00	6.96			C
ATOM	3294			_	726	42.006	56.457	68.413	1.00	8.10		В	
	3295				726	41.413	57.074	67.183	1.00	8.94		В	C
ATOM	3296				726	41.818	57.045	65.891	1.00	9.06		В	C
ATOM	3297				726	40.305	57.893	67.219	1.00	9.43		В	N
ATOM					726	40.057	58.347	66.002	1.00	9.27		В	C
ATOM	3298	_			726	40.961	57.847	65.179	1.00	9.37		В	N
ATOM	3299	C			726	41.806	54.931	70.375	1.00	7.08		В	C
ATOM	3300				726	42.576	53.981	70.239	1.00	7.67		В	0
MOTA	3301	0	•		727	41.596	55.505	71.552	1.00	6.44		В	N
ATOM	3302	N			727	42.271	55.007	72.735	1.00	5.32		В	C
MOTA	3303	CA				42.583	56.164	73.702	1.00	6.18		В	С
ATOM	3304	CB			727	43.413	57.299	73.079	1.00	8.03		В	С
ATOM	3305	CG		-	727	44.439	57.919	74.040	1.00	7.60		B	С
ATOM	3306	CD			727	44.433	58.371	75.136	1.00	8.03		В	0
ATOM	3307	OE1			727		57.955	73.686	1.00	7.05		В	0
ATOM	.3308	OE2			727	45.645	53.939		1.00	3.62		В	С
MOTA	3309	C			727	41.436	53.434	74.486	1.00	3.55		В	0
MOTA	3310	0		В	727	41.808	53.596	72.846	1.00	2.22		В	N
ATOM	3311	N		B	728	40.298		73.433	1.00	0.71		В	C
ATOM	3312	CA		В	728	39.444	52.569	73.303	1.00	0.06		В	С
ATOM	3313	CB	VAL		728	37.954	52.913	73.658	1.00	0.00		В	C
MOTA	3314	CG1		В	728	37.117	51.715	74.230	1.00	0.00		В	С
MOTA	3315	CG2	VAL		728	37.612	54.063	72.682	1.00	1.27		В	С
ATOM	3316	С	VAL	В	728	39.715	51.290		1.00	0.00		В	0
ATOM	3317	0	VAL	В	728	40.245	50.335	73.237	1.00	1.98		В	N
ATOM	3318	N	VAL	В	729	39.359	51.303	71.403	1.00	2.75		В	C
ATOM	3319	CA	VAL	В	729	39.558	50.176	70.501		3.17		В	Č
MOTA	3320	CB	VAL	В	729	39.342	50.624	69.047	1.00	2.91		В	Ċ
ATOM	3321	CG1	VAL	В	729	39.385	49.446	68.120	1.00	4.71		В	Č
MOTA	3322	CG2	VAL	В	729	38.019	51.345	68.934	1.00			В	Č
ATOM	3323	С	VAL	В	729	40.936	49.513	70.633	1.00	1.91		В	Ö
ATOM	3324	0	VAL	В	729	41.043	48.314	70.399	1.00	2.81		В	N
ATOM	3325	N	GLU	В	730	41.979	50.273	70.994	1.00	0.64		В	Ĉ
ATOM	3326	CA	GLU	В	730	43.312	49.687	71.182	1.00	0.00		В	č
ATOM	3327	CB	GLU		730	44.388	50.730	71.535	1.00	0.30		В	Č
ATOM	3328	CG	GLU	B	730	45.844	50.139	71.573	1.00	0.29		В	č
ATOM	3329	CD	GLU	В	730	46.697	50.534	72.812	1.00	1.21		В	ő
ATOM	3330	OE1	GLU	В	730	47.872	50.095	72.884	1.00	0.14		В	ő
ATOM	3331	OE2	GLU	В	730	46.211	51.266	73.708	1.00	1.95		В	č
ATOM	3332	C	GLŪ	В	730	43.159	48.774	72.371	1.00	0.00		В	ŏ
ATOM	3333	Ö	GLU	В	730	43.607	47.629	72.358	1.00	0.00		В	Ŋ
ATOM	3334	N	ASN	В	731	42.524	49.305	73.409	1.00	0.00		В	C
ATOM	3335	CA	ASN		731	42.291	48.524	74.606	1.00	0.00		В	Č
MOTA	3336	CB	ASN		731	41.718	49.409	75.712	1.00	0.00		В	Č
MOTA	3337	CG	ASN		731	42.754	50.309	76.310	1.00	0.00		В	Ö
ATOM	3338	OD1			731	42.729	50.604	77.501	1.00	0.00			Ŋ
ATOM	3339	ND2			731	43.678	50.756	75.485	1.00	0.00		В	C
ATOM	3340	C	ASN		731	41.376	47.318	74.341	1.00	0.52		В	Ö
ATOM	3341	Ö	ASN		731	41.568	46.239	74.901	1.00	0.39		В	N
ATOM	3342	N	LEU		732	40.382	47.488	73.486	1.00	1.09		В	C
ATOM	3343	CA	LEU		732	39.511	46.376	73.196	1.00	0.92		В	
ATOM	3344	CB	LEU		732	38.152	46.865	72.714	1.00	0.49		В	C
	3345	CG			732	37.438	47.757	73.733	1.00	0.20		В	
ATOM ATOM	3346	CD1				36.011	47.964	73.293	1.00	0.28		В	C
	3347	CD2	_			37.464	47.132		1.00	0.00		В	C
MOTA	3348	C	LEU			40.185	45.510	72.155	1.00			В	C
MOTA	3349	Ö	LEU	В	732	40.225	44.291	72.305	1.00	3.42		В	0
MOTA		Ŋ	LEU	В	733	40.725	46.111	71.099	1.00	1.44		В	И
MOTA	3350 3351	CA	LEU			41.418		70.111	1.00	2,90		В	C
ATOM	3351	CB			733	42.073	46.156		1.00	2.85		В	C
ATOM	3352		T.E.L.	ם	733	41.055			1.00	5.50		В	C
MOTA	3353					41.775			1.00	4.61	* \$1	В	C
MOTA	3354	CD1				40.174			1.00			В	C
ATOM	3355					42.476				3.78		В	C
ATOM	3356		LEU			42.646				0.14		В	0
ATOM	3357		LEU			42.646				5.04		В	Ŋ
ATOM	3358	И	ASN	-		43.174				4.70		В	C
ATOM	3359		ASN			45.066						В	С
MOTA	3360		ASN			45.060						В	С
MOTA	3361	CG	ASN			45.656						В	0
MOTA	3362	OD1	ASN	, 5	734	45.656						В	N
MOTA	3363		ASN	, E	734	47.311						В	C
MOTA	3364	С	ASN	ł E	734	43.403	70.570	,					

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0
                                                             1.00
                                                                              B
                                                                   4.52
                                                    74.701
                                           43.521
                                  43.767
                  ASN B 734
             0
       3365
MOTA
                                                                                    N
                                                             1.00
                                                                   5.58
                                                    72.986
                                           42.814
                                  42.491
                  TYR B 735
       3366
            N
MOTA
                                                                                    C
                                                                   6.62
                                                    73.756
                                                             1.00
                                           41,840
                                  41.721
                  TYR B 735
       3367
             CA
ATOM
                                                                   6.55
                                           42.525
                                                    74.891
                                                             1.00
                  TYR B 735
                                  40.949
             CB
       3368
MOTA
                                                                                    C
                                                                   7.79
                                                                               В
                                                             1.00
                                                    76.248
                                           41.886
                                   41.185
                  TYR B 735
             CG
       3369
MOTA
                                                                   6.95
                                                             1.00
                                           40.548
                                                    76.485
                                   40.832
             CD1 TYR B 735
       3370
MOTA
                                                                                    C
                                                                   5.60
                                                             1.00
                                                    77.719
                                           39.944
                                   41.076
             CE1 TYR B 735
       3371
ATOM
                                                                                    C
                                                                   5.97
                                                             1.00
                                                    77.287
                                           42.607
                                   41.787
             CD2 TYR B 735
       3372
ATOM
                                                                                    C
                                                             1.00
                                                                   4.72
                                                    78.522
                                   42.039
                                           42.016
                 TYR B 735
             CE2
       3373
ATOM
                                                                                    C
                                                                               B
                                                    78.732
                                                             1.00
                                                                   5.67
                                           40.682
                                   41.686
                  TYR B 735
             CZ
       3374
MOTA
                                                                               В
                                                                   5.49
                                                    79.942
                                                             1.00
                                           40.083
                                   41.976
                  TYR B 735
             OH
       3375
MOTA
                                                                                    C
                                                                   7.21
                                                                               В
                                                    72.836
                                                             1.00
                                           41.059
                  TYR B 735
                                   40.769
       3376
             C
MOTA
                                                                                    0
                                                                    6.05
                                                             1.00
                                           40.005
                                                    73.210
                                   40.257
                  TYR B 735
       3377
             0
ATOM
                                                                                    N
                                                                   7.12
                                                             1.00
                                                    71.628
                                           41.575
                                   40.547
                  CYS B 736
        3378
             N
MOTA
                                                                                    С
                                                                    6.77
                                                             1.00
                                           40.915
                                                    70.655
                                   39.683
                  CYS B 736
             CA
        3379
MOTA
                                                                                    C
                                                                               B
                                                                    4.98
                                                             1.00
                                                    70.196
                                           41.873
                                   38.601
                  CYS B 736
        3380
             CB
ATOM
                                                                                    S
                                                                               В
                                                    69.229
                                                                    4.31
                                                             1.00
                                           43.200
                                   39.261
                  CYS B 736
              SG
        3381
ATOM
                                                                                    C
                                                                    7.14
                                                    69.483
                                                             1.00
                                           40.526
                                   40.574
                  CYS B 736
             C
        3382
ATOM
                                                                                    0
                                                                               В
                                                                    7.22
                                                    68,435
                                                             1.00
                                           40.073
                                   40.126
                  CYS B 736
        3383
              0
ATOM
                                                                                    N
                                                    69.706
                                                             1.00
                                                                    7.85
                                            40.741
                                   41.859
                  PHE B 737
        3384
             N
ATOM
                                                                                    С
                                                                    7.06
                                                    68.787
                                                             1.00
                                            40.445
                                   42.953
                  PHE B 737
        3385
             CA
MOTA
                                                                                    C
                                                                    6.71
                                                             1.00
                                            41.726
                                                    68.581
                                   43.772
                  PHE B 737
        3386
              CB
ATOM
                                                                                    C
                                                                    5.22
                                                    68.198
                                                             1.00
                                            41.494
                                   45.197
                  PHE B 737
              CG
ATOM
        3387
                                                                                    C
                                                                               B
                                                                    5.46
                                                             1.00
                                                    66.861
                                            41.456
                                   45.576
              CD1 PHE B 737
        3388
MOTA
                                                                                     C
                                                             1.00
                                                                    5.74
                                                    69.177
                                            41.345
                                   46.172
              CD2 PHE B 737
        3389
ATOM
                                                                                     C
                                                    66.502
                                                             1.00
                                                                    5.11
                                            41.272
                                   46.915
              CE1 PHE B 737
        3390
MOTA
                                                                                     C
                                                                    5.57
                                                    68.833
                                                             1.00
                                            41.160
              CE2 PHE B 737
                                   47.520
        3391
MOTA
                                                                                     C
                                                                    4.69
                                                             1.00
                                            41.126
                                                    67.495
                                   47.889
                  PHE B 737
              CZ
        3392
ATOM
                                                                                     C
                                                                               B
                                                                    6.54
                                                             1.00
                                            39.437
                                                    69.615
                                   43.738
                  PHE B 737
        3393
              C
ATOM
                                                                                     0
                                                                    4.30
                                                             1.00
                                                    69.145
                                            38.379
                                   44.123
                  PHE B 737
        3394
              0
MOTA
                                                                                     N
                                                                    6.10
                                                             1.00
                                                    70.874
                                   43.923
                                            39.827
                  GLN B 738
        3395
              N
ATOM
                                                                                     C
                                                             1.00
                                                                    6.06
                                                    71.916
                                            39.086
                                   44.607
                  GLN B 738
        3396
              CA
                                                                                     C
ATOM
                                                    72.822
                                                             1.00
                                                                    5.78
                                            40.059
                                   45.363
                  GLN B 738
              CB
        3397
MOTA
                                                                                     C
                                                                               B
                                                                    8.34
                                                    74.008
                                                             1.00
                                            39.423
                                   46.096
                  GLN B 738
        3398
              CG
MOTA
                                                                                     C
                                                                    9.38
                                                             1.00
                                            40.447
                                                    75.050
                  GLN B 738
                                   46.571
        3399
              CD
ATOM
                                                                                     О
                                                                               В
                                                                    9.00
                                                             1.00
                                                    74.697
                                            41.529
                                   47.067
              OE1 GLN B 738
        3400
ATOM
                                                                                     N
                                                                               В
                                                                    8.95
                                                             1.00
                                                    76.338
                                            40.100
                                   46.434
              NE2 GLN B 738
        3401
ATOM
                                                                               В
                                                             1.00
                                                                    6.13
                                                   72.730
                                   43.548 38.363
                   GLN B 738
              C
        3402
ATOM
                                                                                     0
                                                             1.00
                                                                    0.00
                                 9999.0009999.0009999.000
                   GLN B 738
        3403
              0
ATOM
                                                                                     0
                                 9999.0009999.0009999.000
                                                                    0.00
                                                             1.00
              OXT GLN B 738
        3404
ATOM
END
```

```
GR 2
REMARK coordinates from minimization and B-factor refinement
REMARK refinement resolution: 500.0 - 2.8 A
REMARK starting r= 0.3063 free_r= 0.3305
               r= 0.2662 free_r= 0.3228
REMARK final
REMARK rmsd bonds= 0.011662 rmsd angles= 1.28574
REMARK B rmsd for bonded mainchain atoms= 1.444 target= 1.5
REMARK B rmsd for bonded sidechain atoms= 1.849 target= 2.0
REMARK B rmsd for angle mainchain atoms= 2.513 target= 2.0
REMARK B rmsd for angle sidechain atoms= 2.838 target= 2.5
REMARK target= mlf final wa= 6.4425
REMARK final rweight= 0.1160 (with wa= 6.4425)
REMARK md-method= torsion annealing schedule= slowcool
REMARK starting temperature 2000 total md steps= 20 * 6
REMARK cycles= 2 coordinate steps= 20 B-factor steps= 10
REMARK sg= P6(5) a= 132.09 b= 132.09 c= 53.048 alpha= 90 beta= 90 gamma= 120
REMARK topology file 1 : MSI_CNX_TOPPAR:protein.top
REMARK topology file 2 : MSI_CNX_TOPPAR:dna-rna.top
REMARK topology file 3 : MSI_CNX_TOPPAR:water.top
REMARK topology file 4 : MSI_CNX_TOPPAR:ion.top
REMARK topology file 5 : 486.top
REMARK parameter file 1 : MSI CNX TOPPAR:protein rep.param
REMARK parameter file 2 : MSI_CNX_TOPPAR:dna-rna_rep.param
REMARK parameter file 3 : MSI_CNX_TOPPAR:water_rep.param
REMARK parameter file 4 : MSI_CNX_TOPPAR:ion.param
REMARK parameter file 5 : 486.par
REMARK molecular structure file: gen4-in.mtf
REMARK input coordinates: gen4-in.pdb
REMARK reflection file= gr2.hkl
REMARK ncs= none
REMARK B-correction resolution: 6.0 - 2.8
REMARK initial B-factor correction applied to fobs :
REMARK B11= -6.869 B22= -6.869 B33= 13.738
REMARK B12= -11.858 B13= 0.000 B23= 0.000
REMARK B-factor correction applied to coordinate array B: -1.363
REMARK bulk solvent: (Mask) density level= 0.332998 e/A^3, B-factor= 39.2984 A^2
```

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```
REMARK reflections with |Fobs|/sigma_F < 0.0 rejected
REMARK reflections with |Fobs| > 10000 * rms(Fobs) rejected
                                                                13246 ( 100.0 % )
REMARK theoretical total number of refl. in resol. range:
                                                                          0.7 %)
REMARK number of unobserved reflections (no entry or |F|=0):
                                                                   94 (
                                                                          0.0 %)
                                                                    0
REMARK number of reflections rejected:
                                                                         99.3 % )
                                                                13152
REMARK total number of reflections used:
                                                                         94.3 % )
                                                                12496 (
REMARK number of reflections in working set:
                                                                          5.0 %)
                                                                  656 (
REMARK number of reflections in test set:
CRYST1 132.090 132.090 53.048 90.00 90.00 120.00 P 65
REMARK FILENAME="ref4a.pdb"
                                         created by user: kauppi
REMARK DATE:Oct-03-2001 16:22:37
REMARK Written by CNX VERSION:2000.12
                                                        1.00 50.89
                                                 -5.859
                                 -2.670 61.555
          1 CB THR A 531
MOTA
                                                         1.00 48.57
                                                 -5.103
                                         62.679
                                 -3.135
             OG1 THR A 531
          2
                                                                               C
MOTA
                                                        1.00 48.62
                                                 -4.975
                                         60.711
                                 -1.762
             CG2 THR A 531
          3
                                                                               C
ATOM
                                                         1.00 52.79
                                                 -7.477
                                         61.045
                                 -0.814
                 THR A 531
             C
ATOM
                                                         1.00 55.02
                                                 -8.143
                                         60.037
                                 -1.062
                 THR A 531
          5
             0
MOTA
                                                         1.00 50.10
                                                 -8.281
                                         62.263
                                 -2.841
                 THR A 531
          6
             N
MOTA
                                                         1.00 51.78
                                                 -7.128
                                         62.050
                                 -1.911
                 THR A 531
          7
             CA
                                                                               N
ATOM
                                                         1.00 52.00
                                                 -7.020
                                         61.320
                                  0.401
                 LEU A 532
          8
             N
                                                                               C
ATOM
                                                         1.00 51.08
                                                 -7.303
                                         60.441
                                  1.523
                 LEU A 532
             CA
          9
                                                                               C
ATOM
                                                        1.00 50.51
                                         61.218
                                                 -7.116
                                  2.824
                 LEU A 532
             CB
         10
ATOM
                                                         1.00 51.65
                                                 -7.841
                                  4.072
                                         60.703
                 LEU A 532
             CG
         11
ATOM
                                                         1.00 48.90
                                                 -9.347
                                         60.502
                                  3.802
             CD1 LEU A 532
                                                                                C
ATOM
         12
                                                          1.00 49.14
                                                 -7.580
                                         61.699
                                  5.202
             CD2 LEU A 532
         13
                                                                                C
ATOM
                                                          1.00 51.38
                                                 -6.409
                                         59.196
                                  1.464
                 LEU A 532
         14
MOTA
                                                          1.00 52.09
                                                 -6.838
                                         58.083
                                  1.784
                 LEU A 532
             0
         15
                                                                               N
MOTA
                                                         1.00 50.11
                                                 -5.170
                                         59.389
                  VAL A 533
                                  1.024
             N
                                                                                C
         16
ATOM
                                                         1.00 47.70
                                                 -4.219
                                         58.290
                                  0.897
                 VAL A 533
         17
             ÇA
                                                                                C
MOTA
                                                         1.00 45.94
                                                  -2.832
                                         58.798
                                  0.455
                 VAL A 533
             CB
         18
ATOM
                                                 -1.730
                                                          1.00 44.34
                                         58.058
                                  1.203
             CG1 VAL A 533
         19
MOTA
                                                                                C
                                                          1.00 47.26
                                                  -2.747
                                         60.292
                                  0.654
             CG2 VAL A 533
         20
                                                                                C
ATOM
                                                          1.00 47.79
                                                  -4.710
                                         57.300
                                 -0.163
                  VAL A 533
             C
         21
MOTA
                                                         1.00 48.19
                                                  -4.698
                                         56.097
                                  0.071
                  VAL A 533
          22
             0
                                                                                N
ATOM
                                                          1.00 47.16
                                                  -5.128
                                         57.812
                                 -1.323
                  SER A 534
          23
             N
MOTA
                                                  -5.609 1.00 45.62
                                          56.977
                                 -2.419
                 SER A 534
             CA
ATOM
          24
                                                         1.00 46.31
                                                 -6.103
                                          57.841
                                 -3.580
                  SER A 534
             CB
          25
MOTA
                                                         1.00 45.25
                                                 -7.433
                                          58.280
                                 -3.350
                  SER A 534
             OG
          26
ATOM
                                                         1.00 45.18
                                                  -6.757
                                         56.148
                                 -1.884
                  SER A 534
          27
             C
ATOM
                                                  -6.934 1.00 45.92
                                         54.983
                                 -2.241
                  SER A 534
          28
             0
MOTA
                                                         1.00 44.07
                                                 -7.543
                                          56.762
                                  -1.015
                  LEU A 535
          29
             N
MOTA
                                                         1.00 44.62
                                          56.066
                                                  -8.670
                                  -0.408
             CA LEU A 535
          30
MOTA
                                                         1.00 42.86
                                                 -9.502
                                          57.066
                                  0.400
                  LEU A 535
              CB
          31
ATOM
                                                         1.00 42.52
                                          56.968 -11.012
                                  0.262
                  LEU A 535
             CG
          32
ATOM
                                                          1.00 46.18
                                          58.251 -11.607
                                   0.815
              CD1 LEU A 535
          33
MOTA
                                                          1.00 42.44
                                          55.732 -11.553
                                   0.974
              CD2 LEU A 535
          34
ATOM
                                                          1.00 44.09
                                          54.902
                                                  -8.177
                                   0.489
                  LEU A 535
             C
          35
ATOM
                                                 -8.782
                                                          1.00 41.93
                                          53.816
                                   0.522
                  LEU A 535
              0
          36
ATOM
                                                          1.00 43.42
                                                 -7.071
                                          55.150
                  LEU A 536
                                   1.195
             N
          37
 MOTA
                                                          1.00 44.57
                                                  -6.438
                                          54.169
                                   2.067
              CA LEU A 536
          38
 ATOM
                                                          1.00 44.84
                                                  -5.359
                                          54.830
                  LEU A 536
                                   2.945
          39
              CB
 ATOM
                                                 -5.855
                                                         1.00 45.68
                                          55.792
                                   4.039
                  LEU A 536
              CG
          40
 MOTA
                                                  -4.629 1.00 43.24
              CD1 LEU A 536
 ATOM
                                                  -6.774 1.00 44.85
                                          55.058
                                   5.057
              CD2 LEU A 536
          42
 ATOM
                                                  -5.802 1.00 45.17
                                                                                C
                                          53.053
                                   1.244
                  LEU A 536
              C
          43
 ATOM
                                                                                0
                                                          1.00 47.88
                                                 -5.781
                                          51.901
                                   1.675
                  LEU A 536
          44
              0
 ATOM
                                                                                N
                                                          1.00 44.85
                                                  -5.293
                                          53.393
                                   0.059
                  GLU A 537
              N
          45
 MOTA
                                                                                С
                                                          1.00 44.61
                                                  -4.665
                                          52.410
                                  -0.832
                  GLU A 537
          46
              CA
                                                                                C
 MOTA
                                                          1.00 47.17
                                                  -3.994
                                          53.111
                                  -2.013
                  GLU A 537
          47
              CB
                                                                                С
 MOTA
                                                  -2.950
                                                          1.00 54.20
                                          54.116
                                  -1.594
                  GLU A 537
              CG
          48
 MOTA
                                                                                C
                                                          1.00 58.42
                                                  -2.280
                                          54.781
                                  -2.763
                  GLU A 537
              CD
          49
 MOTA
                                                                                0
                                                          1.00 61.96
                                                  -2.551
                                          55.989
                                  -3.023
                  GLU A 537
              OE1
          50
 MOTA
                                                                                0
                                                  -1.479
                                                           1.00 58.56
                                          54.078
                                  -3.418
              OE2 GLU A 537
          51
                                                                                C
 ATOM
                                                           1.00 42.65
                                                 -5.655
                                  -1.361 51.381
                  GLU A 537
          52
              C
 MOTA
                                                                                0
                                                           1.00 40.36
                                                  -5.316
                                          50.207
                                  -1.481
                  GLU A 537
              0
          53
 MOTA
                                                                                N
                                                           1.00 40.84
                                                  -6.872
                                          51.823
                                  -1.675
                  VAL A 538
              N
          54
 MOTA
                                                                                C
                                                           1.00 41.93
                                                  -7.886
                                          50.911
                                  -2.189
                  VAL A 538
          55
              CA
                                                                                Ç
 MOTA
                                                  -9.040
                                                           1.00 40.65
                                         51.661
                  VAL A 538
                                  -2.919
              CB
          56
                                                                                C
 ATOM
                                                           1.00 39.71
                                                  -8.498
                                          52.374
                                  -4.115
              CG1 VAL A 538
          57
                                                                                C
 MOTA
                                                           1.00 42.54
                                                  -9.691
                                         52.664
                                  -2.006
              CG2 VAL A 538
          58
                                                                                С
 MOTA
                                                           1.00 42.28
                                                  -8.518
                                          50.036
                                  -1.111
                  EVAL A 538
          59
              C
 MOTA
                                                                                0
                                                           1.00 44.13
                                                  -8.934
                                          48.904
                                  -1.370
                  VAL A 538
              0
          60
                                                                                N
 MOTA
                                                           1.00 39.49
                                                  -8.584
                                          50.544
                  ILE A 539
                                   0.107
              N
          61
 ATOM
                                                           1.00 37.83
                                                  -9.201
                                          49.759
                                   1.148
                  ILE A 539
              CA
          62
 MOTA
                                                           1.00 38.75
                                          50.654
                                                  -9.818
                                   2.220
                  ILE A 539
              CB
          63
                                                                                 C
 ATOM
                                          51.621 -10.827
                                                           1.00 33.81
                  ILE A 539
                                   1.572
              CG2
          64
 MOTA
                                                                                 C
                                                           1.00 35.42
                                                   -8.705
                                          51.350
              CG1 ILE A 539
                                   2.997
          65
 MOTA
                                                           1.00 28.59
                                                   -9.234
                                          52.018
              CD1 ILE A 539
                                   4.177
          66
 ATOM
                                                           1.00 39.36
                                                   -8.226
                                          48.792
                                   1.803
                   ILE A 539
              C
          67
 MOTA
                                                                                 0
                                                           1.00 37.52
                                                   -8.637
                                          47.867
                                   2.521
                   ILE A 539
              0
          68
 MOTA
                                         49.018 -6.939
                                                          1.00 39.11
                   GLU A 540
                                   1.540
              N
           69
 MOTA
```

MOTA	70		LU A 5		_	40.400	-5.859 -4.497	1.00 4		C C	
MOTA	71		LU A 5		1.556 2.064	70.0.0	-3.332	1.00 4		С	
ATOM ATOM	72 73		LU A 5 LU A 5		3.593	47.897	-3.078	1.00 4		C 0	
ATOM	74	OE1 G	LU A 5	40	4.101	77.000	-2.298 -3.627	1.00 5		0	
MOTA	75		LU A 5		4.293	48.782 46.736	-6.065	1.00 4		c	
MOTA	76		SLU A 5 SLU A 5		1.671 0.508	46.755	-5.893	1.00 4		0	
ATOM ATOM	77 78		PRO A 5		2.631	45.884	-6.429	1.00 4		N C	
ATOM	79	CD F	PRO A 5	41	4.082	46.106	-6.517	1.00 4		C	
ATOM	80		PRO A 5		2.305	44.466 43.826	-6.650 -6.827	1.00		C	
ATOM	81		PRO A 5		3.687 4.519	44.923	-7.348	1.00 4	42.55	C	
ATOM ATOM	82 83		PRO A 5		1.498	43.806	-5.505	1.00		C	
ATOM	84	0 I	PRO A S	541	1.446	44.305	-4.383 -5.796	1.00 4	46.36 47.77	N	
MOTA	85		SLU A 5		0.867 0.102	42.681 41.973	-4.783	1.00		C	;
ATOM ATOM	86 87		GLU A S		-1.141	41.360	-5.423	1.00		C C	
ATOM	88	CG (SLU A S	542	-1.832	42.255	-6.442	1.00			
MOTA	89		GLU A 5		-3.232 -3.408	41.758 40.558	-6.809 -7.137		59.24	Č	
MOTA	90 91		GLU A S		-4.166	42.584	-6.774	1.00		Ç	
ATOM ATOM	92		GLU A		0.957	40.851	-4.168	•• • • •	48.92	(
MOTA	93	0	GLU A		1.685	40.163 40.671	-4.883 -2.854	1.00	48.50	1	
ATOM	94		VAL A S		0.862 1.602	39.635	-2.154	1.00	49.92		2
ATOM ATOM	95 96		VAL A S		1.045	39.436	-0.722	1.00	50.72		
ATOM	97	CG1	VAL A	543	1.256	40.707	0.049 -0.753	1.00	52.12 53.53		
MOTA	98	CG2	VAL A	543	-0.469 1.543	39.114 38.304	-2.901	1.00			
MOTA	99 100	O ,	VAL A S	543	0.467	37.826	-3.245	1.00			C
MOTA MOTA	101	N	LEU A	544 ·	2.705	37.711	-3.145	1.00	50.91 50.75		N C
MOTA	102		LEU A		2.795 4.063	36.458 36.430	-3.858 -4.702		49.89	(C
MOTA	103 104		LEU A		4.221	37.508	-5.778	1.00	49.94		C
ATOM ATOM	105	CD1	LEU A	544	5.440	37.164	-6.652		45.63 49.14		C
MOTA	106		LEU A		2.937 2.818	37.613 35.301	-6.619 -2.883		53.02		Č
ATOM	107 108		LEU A		3.450	35.385	-1.826	1.00	54.39		0
ATOM ATOM	109		TYR A		2.142	34.215	-3.250		53.91		N C
ATOM	110		TYR A		2.069	33.021 32.229	-2.415 -2.750		54.02 53.76		Č
ATOM	111		TYR A TYR A		0.803 -0.439	32.804	-2.126	1.00	54.26		C
ATOM ATOM	112 113		TYR A		-0.790	32.490	-0.814	_ • - ·			C C
ATOM	114	CE1	TYR A	545	-1.912	33.057 33.702	-0.215 -2.831		55.56 55.14		c
MOTA	115		TYR A TYR A		-1.240 -2.363	34.279	-2.246		56.32		C
ATOM ATOM	116 117		TYR A		-2.695	33.954	-0.938	1.00			С 0
ATOM	118		TYR A	545	-3.812	34.526	-0.360 -2.623		59.17 54.55		c
MOTA	119	C	TYR A		3.281 3.736	32.143 31.983	-3.752	1.00	54.35		0
MOTA MOTA	120 121	O N	ALA A		3.798	31.571	-1.536		55.09		N C
ATOM	122	CA	ALA A	546	4.968	30.686	-1.602 -0.278		56.29 57.16		c
ATOM	123	CB	ALA A ALA A		5.717 4.605	30.711 29.243	-1.949		56.88		C
MOTA MOTA	124 125	C O	ALA A		5.394	28.529	-2.572		56.57		N O
ATOM	126	N	GLY A	547	3.413	28.819	-1.543 -1.813		58.20 59.76		Ç
ATOM	127	CA	GLY A		2.986 3.830	27.461 26.466	-1.013		61.86		C
ATOM ATOM	128 129	C O	GLY A		4.280	25.465	-1.595		62.10		0
ATOM	130	N	TYR A	548	4.048	26.743	0.241	1.00	63.15 63.46		N C
ATOM	131	CA	TYR A		4.847 5.336	25.868 26.648	1.092 2.315	1.00			С
ATOM	132 133	CB CG	TYR A		6.218	25.845	3.239		58.20		C
ATOM ATOM	134	CD1	TYR A		5.862	25.625	4.575		57.08		C
ATOM	135	CE1	TYR A		6.706	24.908 25.332	5.442 2.790		54.85 56.61		Č
MOTA	136	CD2 CE2	TYR A		7.423 8.265	24.621	3.634	1.00	55.45	•	C
ATOM ATOM	137 138	CZ	TYR A		7.911	24.414	4.957		54.67		С 0
ATOM	139	OH	TYR A	548	8.786	23.730	5.777 1.532	•	53.04 65.38	·	c
MOTA	140		TYR A		4.029 2.802	24.652 24.666			64.30		0
MOTA	141 142	O N	ASP A		4.727	23.603	1.964	1.00	68.63		N
MOTA MOTA	143		ASP A	549	4.113	22.364	2.438		70.64 70.58		C
ATOM	144	CB	ASP A		5.099 6.509						С
MOTA	145 146		ASP A		6.768	21.277	3.991	1.00	67.80		0
ATOM ATOM	147		ASP A	549	7.365	21.929	1.976				O C
MOTA	148	C	ASP A	549	3.763				72.67 73.29		Ö
MOTA	149		ASP A SER A		4.545 2.574						N
MOTA	150	14	JUN A		_,						

										•
ATOM	151	CA	SER A		2.098	23.447 24.099	5.491 5.419	1.00 76.11 1.00 75.82		C C
ATOM	152	CB	SER A		0.726 -0.274	23.132	5.690	1.00 76.81		0
ATOM ATOM	153 154	OG C	SER A SER A		2.026	22.331	6.515	1.00 77.29		C
ATOM	155	ŏ	SER A		2.217	22.586	7.699	1.00 78.08		O N
ATOM	156	И	SER A		1.716	21.111 20.003	6.091 7.046	1.00 78.62 1.00 79.57		Ċ
MOTA	157	CA	SER A		1.637 0.564	18.999	6.632	1.00 79.28		C
ATOM ATOM	158 159	CB OG	SER A		0.966	18.319	5.457	1.00 78.65		0
ATOM	160	C	SER A		2.970	19.279	7.107	1.00 79.32		C O
ATOM	161	0	SER A		3.457	18.926 19.050	8.184 5.931	1.00 80.11		N
ATOM	162	И	VAL A		3.542 4.813	18.362	5.811	1.00 77.87		C
ATOM ATOM	163 164	CA CB	VAL A		5.374	18.483	4.392	1.00 76.92		C
ATOM	165	CG1	VAL A	552	6.625	17.630	4.262	1.00 75.03 1.00 76.24		C C
ATOM	166	CG2	VAL A		4.307 5.816	18.080 18.945	3.375 6.783	1.00 78.01		Ċ
MOTA	167 169	С О	VAL A		5.957	20.166	6.899	1.00 78.05		0
ATOM ATOM	168 169	N	PRO A		6.529	18.071	7.502	1.00 78.43		N C
ATOM	170	CD	PRO A	553	6.524	16.600	7.381	1.00 78.07 1.00 78.64		C
ATOM	171	CA	PRO A		7.528 8.340	18.515 17.246	8.475 8.724	1.00 78.33		С
ATOM	172 173	CB CG	PRO A	553 553	7.318	16.166	8.598	1.00 78.15		C
MOTA MOTA	174	C	PRO A		8.389	19.673	7.963	1.00 78.40		C
ATOM	175	0	PRO A	553	8.897	19.640	6.835 8.795	1.00 78.68 1.00 77.55		Ŋ
MOTA	176	N		554	8.545 9.352	20.700 21.854	8.415	1.00 76.93		C
ATOM ATOM	177 178	CA CB		1 554 1 554	9.151	23.023	9.393	1.00 76.00		C
ATOM	179	CG	ASP A		7.820	23.721	9.196	1.00 76.42 1.00 76.75		C O
MOTA	180		ASP A		6.809	23.291 24.693	9.801 8.414	1.00 76.75 1.00 74.81		Ö
ATOM	181		ASP A		7.785 10.836	21.536	8.325	1.00 76.23		С
ATOM ATOM	182 183	C O	ASP A		11.451	21.123	9.301	1.00 76.48		0
MOTA	184	N	SER A	¥ 555	11.400	21.731	7.138	1.00 76.12 1.00 76.05		N C
ATOM	185	CA	SER A		12.824 13.019	21.505 20.492	6.902 5.767	1.00 76.21		Ċ
MOTA	186	CB OG	SER A		11.918	19.605	5.671	1.00 77.67		0
ATOM ATOM	187 188	C	SER A		13.479	22.831	6.494	1.00 74.61		c o
ATOM	189	0	SER A	A 555	12.861	23.656	5.829 6.890	1.00 74.88 1.00 73.27		Ŋ
ATOM	190	N	THR F		14.724 15.414	23.042 24.264	6.505	1.00 73.27		C
ATOM ATOM	191 192	CA CB	THR F		16.785	24.335	7.176	1.00 72.01		C
ATOM	193	OG1	THR A	A 556	16.602	24.315	8.598	1.00 70.90 1.00 71.77		C
MOTA	194	CG2			17.551 15.600	25.594 24.275	6.742 4.982	1.00 71.67		Ċ
ATOM	195 196	C	THR A		15.749	25.330	4.375	1.00 71.94		0
ATOM ATOM	197	N	TRP Z		15.595	23.096	4.369	1.00 70.39		N C
ATOM	198	CA	TRP A		15.762	22.993 21.603	2.924 2.558	1.00 69.47 1.00 69.26		č
ATOM	199	CB CG	TRP A		16.278 15.879		1.192	1.00 68.51		С
MOTA MOTA	200 201	CD2			16.674	21.203	0.007	1.00 68.81		C
ATOM	202	CE2	TRP 2		15.899	20.666	-1.047 -0.274	1.00 69.20 1.00 68.89		Ċ
ATOM	203	CE3			17.969 14.683	21.662 20.583	0.825	1.00 68.76		C
ATOM	204 205	CD1 NE1			14.687	20.294	-0.519	1.00 69.36		N
ATOM ATOM	206	CZ2	TRP A	A 557	16.377	20.573	-2.360	1.00 69.52		C
ATOM	207	CZ3			18.446 17.650	21.570 21.029	-1.580 -2.606	1.00 69.22 1.00 69.23		Č
ATOM	208 209	CH2 C		A 557	14.433	23.256	2.237	1.00 69.42		C
ATOM ATOM	210	ŏ		A 557	14.377	23.845	1.156	1.00 69.20		N N
ATOM	211	N		A 558	13.361	22.793 22.987	2.869 2.331	1.00 69.45 1.00 68.61		Ĉ
ATOM	212	CA		A 558 A 558	12.024 11.006	22.156	3.117	1.00 71.05		С
ATOM ATOM	213 214	CB CG		A 558	11.152	20.657	2.926	1.00 74.42		C
ATOM	215	CD	ARG 3	A 558	10.911	20.265	1.463	1.00 77.47 1.00 79.35		C N
ATOM	216	NE		A 558	10.942 10.789	18.810 18.200	1.250 0.071	1.00 79.72		Ċ
ATOM	217 218	CZ NH1		A 558 A 558	10.789	18.902	-1.042	1.00 79.73	•	N
ATOM ATOM	219	NH2		A 558	10.806	16.875	0.006	1.00 77.99		N
ATOM	220	C	ARG	A 558	11.656	24.468	2.406 1.683	1.00 66.30 1.00 66.38		C O
MOTA	221	0		A: 558	10.778 12.332	24.936 25.205	3.284	1.00 62.72		N
ATOM	222 223	N CA		A 559 A 559	12.332	26.633	3.431	1.00 60.06	;	C
ATOM ATOM	224	CB	ILE :	A 559	12.234	27.084	4.904	1.00 58.16		C
ATOM	225	CG2	ILE .	A 559	12.132	28.597 26.442	5.005 5.771	1.00 57.79 1.00 55.84		Č
ATOM	226		ILE		11.153 11.374	26.442	7.237	1.00 54.57		С
ATOM ATOM	227 228	C CD1		A 559	12.989	27.466	2.528	1.00 58.90)	C
ATOM	229	Ö	ILE	A 559	12.539	28.386	1.840	1.00 58.71 1.00 57.11		N O
ATOM	230	N		A 560	14.278	27.140 27.879	2.525 1.687	1.00 57.11		Ç
MOTA	231	CA	MET	A 560	15.215	61,013	2.007			

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NMOM	232	СВ	MET A 56	0 16.663	27.429	1.942	1.00 55.07	C
ATOM	233		MET A 56			3.261	1.00 55.01	C
MOTA	234	SD	MET A 56			3.742	1.00 55.71	S
ATOM		CE	MET A 56			2.615	1.00 56.88	C
ATOM	235		MET A 56			0.215	1.00 53.30	С
ATOM	236	C	MET A 56	•		-0.618	1.00 53.24	0
MOTA	237	0				-0.101	1.00 51.46	N
MOTA	238	N	THR A 56			-1.472	1.00 49.42	С
ATOM	239	CA	THR A 56			-1.614	1.00 47.12	C
ATOM	240	CB	THR A 56			-1.436	1.00 43.30	0
ATOM	241	OG1	THR A 56			-2.992	1.00 47.09	С
MOTA	242	CG2	THR A 56				1.00 50.35	C
MOTA	243	С	THR A 56	51 12.847		-1.896		ō
MOTA	244	0	THR A 56	12.962		-2.813	1.00 49.29	N
ATOM	245	N	THR A 56	52 11.729		-1.209	1.00 50.60	č
ATOM	246	CA	THR A 56	52 10.513		-1.480	1.00 50.50	č
MOTA	247	CB	THR A 50			-0.438	1.00 50.72	
ATOM	248	OG1	THR A 5		25.835	-0.181	1.00 49.04	0
ATOM	249	CG2	THR A 50		27.654	-0.977	1.00 51.29	C
	250	C	THR A 5		29.055	-1.441	1.00 50.76	C
MOTA		Õ	THR A 5			-2.257	1.00 52.50	0
ATOM	251	N	LEU A 50			-0.502	1.00 48.08	N
ATOM	252		LEU A 5			-0.377	1.00 48.07	С
ATOM	253	CA	LEU A 5			0.842	1.00 48.05	С
ATOM	254	CB	_			2.096	1.00 47.81	C
MOTA	255	CG	LEU A 5			3.145	1.00 47.59	С
MOTA	256	CD1	LEU A 5			1.794	1.00 48.28	C
ATOM	257	CD2	LEU A 5			-1.628	1.00 49.19	С
ATOM	258	C	LEU A 5			-2.010	1.00 49.29	0
MOTA	259	0	LEU A 5			-2.280	1.00 50.80	N
MOTA	260	N	ASN A 5				1.00 51.91	
MOTA	261	CA	ASN A 5			-3.493	1.00 54.20	C.
MOTA	262	CB		64 15.175		-3.759	1.00 55.56	Ċ
ATOM	263	CG	ASN A 5			-4.904		ō
MOTA	264	OD1	ASN A 5			-6.078	1.00 56.75	N
ATOM	265	ND2	ASN A 5	64 17.358		-4.572	1.00 54.82	Č
ATOM	266	C	ASN A 5	64 13.228		-4.690	1.00 51.59	Ö
MOTA	267	0	ASN A 5	64 13.363		-5.471	1.00 52.16	N
MOTA	268	N	MET A 5			-4.831	1.00 49.72	C
ATOM	269	CA	MET A 5	65 11.30		-5.922	1.00 48.12	c
ATOM	270	CB	MET A 5		3 28.830	-5.803	1.00 50.29	
ATOM	271	CG	MET A 5		27.757	-6.866	1.00 54.07	C
MOTA	272	SD	MET A 5		3 27.296	-7.119	1.00 59.68	s
	273	CE	MET A 5		3 28.291	-8.568	1.00 56.89	C
MOTA	274	C	MET A 5	-		-5.875	1.00 46.21	C
MOTA		Ö	MET A 5			-6. 896	1.00 44.66	0
MOTA	275	N	LEU A 5			-4.665	1.00 42.77	N
MOTA	276		LEU A 5	<u>-</u>		-4.446	1.00 40.42	С
MOTA	277	CA				-3.012	1.00 39.77	С
ATOM	278	CB	LEU A 5	• -		-2.593	1.00 39.92	С
MOTA	279	CG	LEU A 5				1.00 40.30	С
ATOM	280	CD1				-1.130	1.00 38.27	С
ATOM	281	CD2				-4.698	1.00 40.14	С
ATOM	282	C	LEU A 5	• •		-5.405	1.00 39.63	0
MOTA	283	0	LEU A 5			-4.122	1.00 37.86	N
MOTA	284	N	GLY A 5			-4.248	1.00 35.66	С
MOTA	285	CA	GLY A 5				1.00 37.12	С
MOTA	286	C	GLY A 5				1.00 35.69	0
ATOM	287	0	GLY A 5			-6.597	1.00 33.03	N
MOTA	288	N	GLY A 5				1.00 36.19	C
MOTA	289	CA	GLY A 5				1.00 35.62	Č
MOTA	290	C	GLY A 5					ō
ATOM	291	0	GLY A 5	_	_	_	1.00 37.61	N
MOTA	292	N	ARG A 5	69 10.43			1.00 35.12	c
ATOM	293	CA	ARG A 5	69 9.22		-8.819	1.00 34.25	Č
MOTA	294	CB	ARG A 5	69 8.00			1.00 33.11	
ATOM	295	CG	ARG A 5	69 7.96	9 33.634		1.00 31.46	C
ATOM	296	CD	ARG A 5		6 32.772		1.00 32.87	C
MOTA	297	NE	ARG A 5				1.00 34.06	N
ATOM	298	CZ	ARG A 5		0 33.070			C
	299	NH1	_		9 32.507	-5.923		N
MOTA	300	NH2				-7.106		N
MOTA	301	C	ARG A 5			-8.297	1.00 33.11	C
MOTA	302	Ö	· ARG A 5				1.00 32.54	0
MOTA	303	Ŋ	GLN A S					N
MOTA	304	CA	GLN A S				1.00 30.52	C
MOTA			GLN A S					С
MOTA	305	CB	GLN A 5					С
MOTA	306	CG						C
MOTA	307	CD OF1	GLN A S					0
MOTA	308	OE1						N
MOTA	309	NE2		· · ·				C
MOTA	310	C	GLN A					C
MOTA	311		GLN A					N
MOTA	312	N	VAL A S	571 11.68	,, ,,,,,,,,			

	012 CD WAT A 571	12.581 40.241 -8.555 1.00 33.03	C
MOTA	313 CA VAL A 571 314 CB VAL A 571	13 891 39.518 -8.979 1.00 33.17	С
ATOM		14.764 40.481 -9.786 1.00 28.63	C
MOTA	315 CG1 VAL A 571 316 CG2 VAL A 571	14.636 38.986 -7.748 1.00 32.83	C
ATOM	317 C VAL A 571	11.854 40.680 -9.811 1.00 35.62	0
ATOM ATOM	318 O VAL A 571	11.850 41.865 -10.155 1.00 36.48	Ŋ
ATOM	319 N ILE A 572	11.217 39.716 -10.476 1.00 34.39 10.472 39.975 -11.711 1.00 31.63	Ċ
ATOM	320 CA ILE A 572	10.472	Č
ATOM	321 CB ILE A 572	9.000	C
ATOM	322 CG2 ILE A 572	0.950	С
MOTA	323 CG1 ILE A 572	11.025	C
MOTA	324 CD1 ILE A 572	10.567 36.301 -13.094 1.00 25.32 9.355 40.973 -11.398 1.00 30.52	C
MOTA	325 C ILE A 572	9 087 41.929 -12.145 1.00 30.96	0
MOTA	326 O ILE A 572 327 N ALA A 573	8 738 40.773 -10.246 1.00 29.17	N
ATOM		7 662 41 648 -9.850 1.00 30.66	C
MOTA	328 CA ALA A 573 329 CB ALA A 573	6.999 41.132 -8.584 1.00 23.83	C
ATOM ATOM	330 C ALA A 573	8.209 43.051 -9.652 1.00 32.75	ŏ
ATOM	331 O ALA A 573	7.697 44.009 -10.245 1.00 34.65 9.246 43.171 -8.824 1.00 34.21	Ŋ
ATOM	332 N ALA A 574	3.240 33.37 1 00 25 00	Ç
ATOM	333 CA ALA A 574	9.095 33.10	С
ATOM	334 CB ALA A 574	11.000 1 00 25 80	С
ATOM	335 C ALA A 574	10.380 45.104 -9.863 1.00 35.85 10.450 46.334 -9.985 1.00 34.82	0
ATOM	336 O ALA A 574	10.695 44.270 -10.849 1.00 34.71	N
MOTA	337 N VAL A 575	11 137 44 773 -12.140 1.00 36.38	C
ATOM	338 CA VAL A 575 339 CB VAL A 575	11 758 43 632 -13.016 1.00 37.23	C
ATOM	339 CB VAL A 575 340 CG1 VAL A 575	11.901 44.076 -14.479 1.00 36.32	C
ATOM	341 CG2 VAL A 575	13.136 43.279 -12.490 1.00 38.27	C
MOTA MOTA	342 C VAL A 575	9.966 45.403 -12.885 1.00 37.14	ŏ
ATOM	343 O VAL A 575	10.113 46.448 -13.518 1.00 37.37 8 805 44 764 -12.815 1.00 37.85	Ŋ
ATOM	344 N LYS A 576	8.003 43.00 30 77	С
ATOM	345 CA LYS A 576	7.017	С
ATOM	346 CB LYS A 576	6.506 44.236 -13.429 1.00 39.30 5.360 44.562 -14.334 1.00 43.51	С
ATOM	347 CG LYS A 576	4.079 43.877 -13.916 1.00 46.79	C
ATOM	348 CD LYS A 576 349 CE LYS A 576	2 877 44.781 -14.236 1.00 48.91	C
ATOM		3 034 46 142 -13.588 1.00 48.36	N
ATOM	350 NZ LYS A 576 351 C LYS A 576	7.158 46.544 -12.760 1.00 39.15	C O
ATOM ATOM	352 O LYS A 576	6.753 47.537 -13.364 1.00 39.95	N
ATOM	353 N TRP A 577	7.232 46.502 -11.445 1.00 36.56 5.819 47.638 -10.678 1.00 36.07	c
ATOM	354 CA TRP A 577	0.013	C
ATOM	355 CB TRP A 577	0.501 1.00	C
ATOM	356 CG TRP A 577	7 70 21 22	С
MOTA	357 CD2 TRP A 577	8.127 49.185 -7.764 1.00 31.22 7.641 50.253 -6.973 1.00 29.27	С
MOTA	358 CE2 TRP A 577 359 CE3 TRP A 577	9 517 48 973 -7.840 1.00 28.86	C
ATOM	JUD 4 577	5 880 49 212 -7.894 1.00 30.51	C
MOTA	360 CD1 TRP A 577 361 NE1 TRP A 577	6.277 50.243 -7.072 1.00 31.72	N C
ATOM ATOM	362 CZ2 TRP A 577	8.495 51.111 -6.250 1.00 28.61	Ċ
ATOM	363 CZ3 TRP A 577	10.377 49.845 -7.108 1.00 27.76 9.852 50.891 -6.329 1.00 27.24	Č
ATOM	364 CH2 TRP A 577	11 000 1 00 27 91	С
ATOM	365 C TRP A 577	7.000	0
MOTA	366 O TRP A 577	7.131 49.972 -11.208 1.00 38.33 8.961 48.664 -11.156 1.00 40.51	N
ATOM	367 N ALA A 578	9 860 49 774 -11.478 1.00 41.65	C
ATOM	368 CA ALA A 578 369 CB ALA A 578	11 304 49.287 -11.532 1.00 40.34	C
MOTA		9.465 50.438 -12.796 1.00 41.28	C
MOTA MOTA	370 C ALA A 578 371 O ALA A 578	9.384 51.661 -12.885 1.00 39.86	И
MOTA	372 N LYS A 579	9.216 49.624 -13.814 1.00 43.04 8.847 50.146 -15.120 1.00 46.65	C
MOTA	373 CA LYS A 579	16 107 1 00 46 24	Č
ATOM	374 CB LYS A 579	0.012	C
ATOM	375 CG LYS A 579	3.002	С
ATOM	376 CD LYS A 579	9.897 47.962 -17.957 1.00 48.01 11.324 48.069 -18.494 1.00 50.77	С
MOTA	377 CE LYS A 579	11.402 48.236 -19.987 1.00 47.84	N
ATOM	378 NZ LYS A 579	7 593 51.024 -15.046 1.00 49.17	C
MOTA	379 C LYS A 579 380 O LYS A 579	7.457 51.994 -15.801 1.00 50.93	O N
ATOM	381 N ALA A 580	6.695 50.696 -14.120 1.00 49.47	И С
MOTA MOTA:	382 CA ALA A 580	5.446 51.421 -13.948 1.00 48.74	C
ATOM	383 CB ALA A 580	4.459 50.570 -13.138 1.00 47.63	č
ATOM	384 C ALA A 580	3.070 00.00	Ö
ATOM	385 O ALA A 580	4.013	N
ATOM	386 N ILE A 581	6.772 52.885 -12.531 1.00 51.42 7.107 54.142 -11.848 1.00 51.19	C
MOTA	387 CA ILE A 581	8.472 54.049 -11.087 1.00 51.78	C
ATOM	388 CB ILE A 581	8 701 55.323 -10.292 1.00 51.98	C
MOTA	389 CG2 ILE A 581 390 CG1 ILE A 581	8.499 52.836 -10.146 1.00 50.73	
ATOM	390 CG1 ILE A 581 391 CD1 ILE A 581	7.537 52.921 -8.983 1.00 49.50	
MOTA MOTA	392 C ILE A 581	7.204 55.278 -12.873 1.00 51.72	Ċ
MOTA	393 O ILE A 581	7.993 55.224 -13.813 1.00 51.09	

ATOM	394		PRO A		6.385	56.323 -12.704 56.458 -11.670	1.00 54.02 1.00 52.87	И С
ATOM	395		PRO A		5.345 6.370	57.479 -13.608	1.00 54.01	С
ATOM ATOM	396 397		PRO A		5.405	58.437 -12.917	1.00 54.01	C C
ATOM	398		PRO A	582	4.442	57.501 -12.261	1.00 53.51 1.00 54.80	c
ATOM	399	C	PRO A		7.747 8.366	58.115 -13.824 58.607 -12.881	1.00 53.81	0
ATOM ATOM	400 401	N N	PRO A GLY A		8.215	58.087 -15.070	1.00 55.74	N
ATOM	402		GLY A	583	9.491	58.688 -15.403	1.00 56.81 1.00 57.67	C
MOTA	403	C	GLY A		10.634 11.714	57.704 -15.430 58.003 -15.947	1.00 58.72	, 0
ATOM	404 405	O N	GLY A PHE A		10.404	56.525 -14.866	1.00 56.97	И
MOTA MOTA	406	CA	PHE A		11.432	55.496 -14.833	1.00 56.64	C C
ATOM	407	CB	PHE A		10.960	54.282 -14.010 53.206 -13.854	1.00 52.95 1.00 49.47	Č
ATOM	408	CG CD1	PHE A		12.009 13.078	53.371 -12.978	1.00 47.44	C
ATOM ATOM	409 410	CD2	PHE A		11.957	52.052 -14.611	1.00 47.12	C C
ATOM	411	CE1	PHE A	584	14.067	52.409 -12.867 51.094 -14.494	1.00 44.97 1.00 46.11	č
ATOM	412	CE2	PHE A		12.947 14.002	51.094 -14.494	1.00 44.16	C
MOTA MOTA	413 414	CZ	PHE A		11.803	55.038 -16.247	1.00 58.50	C O
ATOM	415	0	PHE A	584	12.984	54.860 -16.563 54.849 -17.091	1.00 58.64 1.00 60.26	Ŋ
MOTA	416	N	ARG A		10.790 11.007	54.393 -18.463	1.00 61.00	C
ATOM ATOM	417 418	CA CB	ARG A		9.703	53.875 -19.073	1.00 60.88	C C
ATOM	419	CG	ARG A	585	9.687	52.380 -19.352 51.908 -19.644	1.00 62.71 1.00 64.91	C
ATOM	420	CD	ARG A		8.268 8.171	50.458 -19.777	1.00 67.64	N
MOTA MOTA	421 422	NE CZ	ARG A		8.412	49.782 -20.899	1.00 70.40	C N
ATOM	423	NH1	ARG A	585	8.761	50.425 -22.005	1.00 70.62 1.00 70.06	N
MOTA	424	NH2			8.316 11.585	48.454 -20.916 55.494 -19.330	1.00 61.90	C
MOTA	425 426	C O	ARG A		11.965	55.250 -20.469	1.00 61.35	. 0
ATOM ATOM	427	И	ASN A	586	11.646	56.705 -18.780	1.00 63.51 1.00 64.69	о С
ATOM	428	CA	ASN A		12.207 11.563	57.860 -19.488 59.152 -18.980	1.00 65.67	С
ATOM	429 430	CB CG	ASN A		10.107	59.266 -19.376	1.00 67.09	C
ATOM ATOM	431	OD1	ASN A	586	9.381	60.157 -18.917	1.00 66.96 1.00 66.08	O N
MOTA	432	ND2			9.669 13.728	58.362 -20.243 57.937 -19.305	1.00 64.75	С
MOTA	433 434	C O	ASN A		14.407	58.745 -19.954	1.00 65.61	0
ATOM ATOM	435	N	LEU A	587	14.246	57.108 -18.398	1.00 63.05 1.00 61.56	N C
MOTA	436	CA	LEU A		15.677 15.916	57.034 -18.114 56.338 -16.766		C
MOTA	437 438	CB CG	LEU A		15.159	56.892 -15.557	1.00 58.39	C
ATOM ATOM	439	CD1	LEU F	A 587	15.295	55.945 -14.379	1.00 54.35 1.00 59.13	C
MOTA	440	CD2		A 587	15.690 16.346	58.276 -15.212 56.229 -19.227		С
ATOM	441 442	C O	LEU A	A 587	15.688	55.460 -19.940	1.00 61.86	0
MOTA MOTA	443	N	HIS A	A 588	17.652	56.413 -19.385		N C
ATOM	444	CA		A 588 A 588	18.395 19.878	55.691 -20.407 56.080 -20.363		C
MOTA MOTA	445 446	CB CG	HIS A		20.631	55.740 -21.614	1.00 69.11	C
ATOM	447	CD2		A 588	20.414	54.802 -22.567		И
MOTA	448	ND1		A 588 A 588	21.767 22.212	56.422 -22.004 55.915 -23.144		С
MOTA MOTA	449 450	CE1	HIS A		21.407	54.931 -23.504	1.00 69.84	n C
ATOM	451	C	HIS A	A 588	18.211			o
MOTA	452	0		A 588	18.124 18.153			N
ATOM ATOM	453 454	N CA		A 589 A 589	17.932	52.002 -21.088	1.00 68.00	C
MOTA	455	СВ	LEU I	A 589	17.742	51.403 -22.478		c
ATOM	456	CG		A 589	16.982 15.608			C
MOTA ATOM	457 458	CDS	F FED 1	A 589	16.874	49.660 -24.039	1.00 67.70	C C
ATOM	459	Ç	LEU :	A 589	19.037			Ö
MOTA	460	Q		A 589	18.844 20.189			. и
MOTA MOTA	461 462	Ń CA		A 590 A 590	21.314	51.235 -19.521	1.00 69.58	. C
ATOM	463	CB	ASP	A 590	22.660	51.769 -20.067	1.00 70.15	. C
MOTA	11464	CG		A 590	22.537 21.855			0
ATOM ATOM	465 466	OD:	LASP . 2 ASP .	A 590 A 590	23.140	53.507 -21.683	1.00 73.93	0
ATOM	467	C	ASP	A 590	21.253	51.428 -18.009		C
ATOM	468	0	ASP	A 590	21.090 21.370			N
ATOM	469 470	N CA		A 591 A 591	21.378	52.997 -16.164	1.00 67.55	
MOTA MOTA	471	CA		A 591	21.624	54.502 -15.980	1.00 68.82	C
ATOM	472	ÇG	ASP	A 591	20.562 20.665			C
MOTA	473		1 ASP 2 ASP		19.621			C
MOTA	474	שט	E MOF		3 5 • •			

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MOTA	475	С	ASP A	591	20.028	52.591 -15.5		65.98	C
	476		ASP A		19.884	52.537 -14.3	05 1.00	65.93	0
ATOM		_	GLN A		19.062	52.277 -16.3	79 1.00	64.69	N
MOTA	477				17.739	51.881 -15.9		61.23	С
ATOM	478		GLN A			51.812 -17.1			C
MOTA	479	CB	GLN A		16.783	51.977 -16.7			С
MOTA	480	CG	GLN A		15.303				С
ATOM	481	CD	GLN A		14.401	52.033 -18.0			Ö
ATOM	482	OE1	GLN A	592	14.022	51.005 -18.5		53.74	Ŋ
ATOM	483	NE2	GLN A		14.062	53.241 -18.4		52.56	
ATOM	484	C	GLN A		17.812	50.523 -15.2			C
	485	Õ	GLN A		17.204	50.290 -14.2	216 1.00	60.61	0
ATOM			MET A		18.568	49.625 -15.8	64 1.00	59.38	N
ATOM	486	N			18.676	48.283 -15.3		59.02	С
ATOM	487	CA.	MET A			47.319 -16.4		59.31	С
ATOM	488	CB	MET A		18.912	47.521 -17.2		58.67	С
ATOM	489	CG	MET F		20.218			60.50	S
ATOM	490	SD	MET F		20.046	47.064 -18.9			Č
ATOM	491	CE	MET F	1 593	19.999	45.258 -18.8		56.14	C
ATOM	492	С	MET A		19.774	48.163 -14.2		58.08	
ATOM	493	0	MET F		19.910	47.133 -13.6	536 1.00		0
	494	N	THR A		20.554	49.226 -14.1	1.00		N
MOTA			THR A		21.619	49.223 -13.1		52.37	C
ATOM	495	CA			22.710	50.272 -13.5		52.59	С
MOTA	496	CB	THR A		22.163	51.588 -13.4		55.64	0
MOTA	497	OG1	THR A			50.079 -14.9		51.12	С
ATOM	498	CG2	THR A		23.215				С
ATOM	499	С		A 594	20.980	49.541 -11.8		50.71	Ō
ATOM	500	0		A 594	21.400	49.028 -10.			N
ATOM	501	N	LEU A	A 595	19.950	50.386 -11.8		47.21	C
ATOM	502	CA		A 595	19.210	50.773 -10.6		43.18	
ATOM	503.	CB		A 595	18.233	51.903 -10.9			C
ATOM	504	CG		A 595	18.882	53.228 -11.3		37.82	C
			LEU A		17.878	54.033 -12.3	179 1.00	34.71	С
ATOM	505		LEU A		19.379	53.983 -10.3		33.64	С
ATOM	506				18.441	49.560 -10.0		42.45	С
MOTA	507	C		A 595		49.363 -8.8	•	39.98	0
ATOM	508	0		A 595	18.326			42.62	N
MOTA	509	N	_	A 596	17.929	48.751 -11.0		42.07	C
ATOM	510	CA		A 596	17.165	47.570 -10.	_		Č
ATOM	511	CB	LEU I	A 596	16.424	47.048 -11.		41.51	C
ATOM	512	CG	LEU A	A 596 ⁻	15.073	47.720 -12.3		42.26	
ATOM	513	CD1		A 596	14.632	47.259 -13.		40.73	C
	514	CD2		A 596	13.982	47.403 -11.2		39.90	C
MOTA	515	C		A 596	18.108	46.519 -10.3		42.95	С
ATOM				A 596	17.895	45.928 -9.		42.89	0
ATOM	516	0			19.186	46.315 -10.		45.16	Ŋ
MOTA	517	И		A 597	20.170	45.319 -10.		45.30	C
MOTA	518	CA		A 597		45.226 -11.		45.25	С
ATOM	519	CB	GLN I		21.196			49.66	C
ATOM	520	CG		A 597	22.231	44.174 -11.		50.52	C
ATOM	521	CD		A 597	23.370	44.221 -12.	·		ō
ATOM	522	OE1	GLN 3	A 597	23.242	44.794 -13.		49.38	И
ATOM	523	NE2	GLN I	A 597	24.493	43.604 -12.		51.96	
ATOM	524	C		A 597	20.825	45.647 -9.		45.12	C
ATOM	525	Ö		A 597	21.536	44.828 -8.		46.73	0
	526	N		A 598	20.549	46.834 -8.	670 1.00	44.17	N
ATOM				A 598	21.155	47.247 -7.	433 1.00	45.01	С
MOTA	527	CA		A 598	21.692	48.664 -7.		47.76	C
ATOM	528	CB			22.174	49.260 -6.		50.34	C
ATOM	529	CG		A 598		48.770 -5.		52.47	С
MOTA	530	CD1		A 598	23.328				С
ATOM	531	CE1		A 598	23.784				C
ATOM	532	CD2		A 598	21.463			53.57	C
ATOM	533	CE2		A 598	21.906	50.800 -4.		55.40	Č
ATOM	534	\mathbf{cz}		A 598	23.076	50.280 -3.		57.52	Ö
ATOM	535	OH	TYR .	A 598	23.550	50.737 -2.			č
ATOM	536	C		A 598	20.200	47.215 - 6.		0 43.65	
ATOM	537	Ō		A 598	20.522	46.692 -5.	171 1.0	0 42.75	0
	538	N		A 599	19.010	47.767 -6.		0 42.25	N
ATOM	539	CA		A 599	18.040	47.847 -5.		0 40.21	C
MOTA				A 599	17.300	49.170 -5.	447 1.0	0 41.02	C
ATOM	540	CB			16.771	49.355 -6.		0.43.50	O
MOTA	541	OG		A 599		46.731 -5.		0 37.89	C
ATOM	542	C.		A 599	17.041	46.728 -4.		0 35.35	C
ATOM	543	0		A 599	16.257			0 36.83 .	N
ATOM-	544	Ŋ		A 600	17.077			0 39.71	Ċ
ATÖM	545	CA		A 600	16.140				Ċ
ATOM	546	CB		A 600	16.408			0 40.75	
ATOM	547	CG		A 600	17.668			0 43.83	
	548	CD2		A 600	17.859		_	0 44.81	C
ATOM	549			A 600	19.209	41.227 -6.		0 44.98	C
MOTA	550			A 600	17.023			0 45.02	C
7 m ^ ·					18.867	• • •	546 1.0	0 46.31	C
MOTA		~ ~ ~ ~ ~	ממת	A MILLO					×
ATOM	551		TRP			42 144 -7	193 1.0	0 47.86	N
MOTA MOTA	551 552	NE1	TRP	A 600	19.795		_	0 47.86 0 42.75	C
ATOM	551 552 553	NE1 CZ2	TRP TRP	A 600 A 600	19.795 19.753	40.086 -5.	734 1.0	0 42.75	
MOTA MOTA	551 552 553 554	NE1 CZ2 CZ3	TRP TRP TRP	A 600 A 600 A 600	19.795 19.753 17.562	40.086 -5. 39.697 -4.	734 1.0 744 1.0	0 42.75 0 44.88	C
MOTA MOTA MOTA	551 552 553	NE1 CZ2 CZ3	TRP TRP TRP	A 600 A 600	19.795 19.753	40.086 -5. 39.697 -4.	734 1.0 744 1.0	0 42.75	C

3,0004	556 C TRP A 600	16.149 44.045 -4.655 1.00 40.84
MOTA ATOM	557 O TRP A 600	15 100 43 639 -4.144 1.00 42.57
	558 N MET A 601	17 318 43.964 -4.030 1.00 40.62
ATOM	559 CA MET A 601	17 370 43 383 -2.700 1.00 37.96
ATOM ATOM	560 CB MET A 601	18.789 42.874 -2.367 1.00 39.10
ATOM	561 CG MET A 601	18.951 42.285 -0.929 1.00 36.78
ATOM	562 SD MET A 601	17.661 41.045 -0.407 1.00 38.16
ATOM	563 CE MET A 601	18.412 39.458 -0.893 1.00 28.58
ATOM	564 C MET A 601	16.897 44.410 -1.673 1.00 35.33
ATOM	565 O NET A 601	16.415 44.031 -0.618 1.00 33.40
	566 N PHE A 602	17.026 45.700 -1.985 1.00 33.32
MOTA	567 CA PHE A 602	16.558 46.767 -1.087 1.00 33.61
ATOM ATOM	568 CB PHE A 602	16,990 48.133 -1.615 1.00 32.68
MOTA	569 CG PHE A 602	18.413 48.488 -1.304 1.00 35.07
MOTA	570 CD1 PHE A 602	19.471 48.026 -2.099 1.00 34.67
ATOM	571 CD2 PHE A 602	18.699 49.286 -0.203 1.00 35.29
ATOM	572 CE1 PHE A 602	20.803 48.368 -1.796 1.00 35.82
ATOM	573 CE2 PHE A 602	20.020 49.637 0.120 1.00 36.29
ATOM	574 CZ PHE A 602	21.079 49.177 -0.677 1.00 36.30
ATOM	575 C PHE A 602	15.018 46.743 -1.013 1.00 34.19
ATOM	576 O PHE A 602	14.411 46.843 0.053 1.00 32.90
ATOM	577 N LEU A 603	14.412 46.622 -2.186 1.00 34.93
ATOM	578 CA LEU A 603	12.970 46.578 -2.351 1.00 33.13
ATOM	579 CB LEU A 603	12.657 46.535 -3.853 1.00 30.04
ATOM	580 CG LEU A 603	13.307 47.603 -4.746 1.00 26.04
ATOM	581 CD1 LEU A 603	13.088 47.232 -6.235 1.00 18.93
MOTA	582 CD2 LEU A 603	12.749 49.002 -4.344 1.00 21.25
ATOM	583 C LEU A 603	12.368 45.347 -1.657 1.00 34.15
ATOM	584 O LEU A 603	11.654 45.452 -0.648 1.00 34.86 12.672 44.173 -2.207 1.00 34.03
ATOM	585 N MET A 604	12.072 33.17
ATOM	586 CA MET A 604	12.101 1
ATOM	587 CB MET A 604	12.501
ATOM	588 CG MET A 604	12.000
ATOM	589 SD MET A 604	15.552 15.552 1 00 20 50
ATOM	590 CE MET A 604	13.043
ATOM	591 C MET A 604	16.41
ATOM	592 O MET A 604	11.000
ATOM	593 N ALA A 605	10.122
MOTA	594 CA ALA A 605	10.010
MOTA	595 CB ALA A 605	13.10, 43.01
ATOM	596 C ALA A 605	16.100
MOTA	597 O ALA A 605	12.267 44.088 3.603 1.00 35.64 12.657 45.543 1.936 1.00 34.31
MOTA	598 N PHE A 606	11.880 46.608 2.554 1.00 33.65
MOTA	599 CA PHE A 606	12.104 47.924 1.790 1.00 32.95
ATOM	600 CB PHE A 606	11.632 49.141 2.526 1.00 31.43
MOTA	601 CG PHE A 606 602 CD1 PHE A 606	12.130 49.443 3.782 1.00 28.25
ATOM		10.652 49.971 1.974 1.00 32.65
MOTA		11.658 50.546 4.485 1.00 26.61
ATOM		10 168 51.084 2.671 1.00 30.07
ATOM	605 CE2 PHE A 606 606 CZ PHE A 606	10.669 51.370 3.923 1.00 29.38
ATOM	607 C PHE A 606	10.411 46.196 2.525 1.00 34.29
MOTA	608 O PHE A 606	9.642 46.502 3.438 1.00 33.41
MOTA	609 N ALA A 607	10.037 45.468 1.480 1.00 35.25
ATOM ATOM	610 CA ALA A 607	8 665 45,009 1.366 1.00 36.22
ATOM	611 CB ALA A 607	8.403 44.452 -0.017 1.00 36.17
ATOM	612 C ALA A 607	8.402 43.946 2.425 1.00 36.85
MOTA	613 .O ALA A 607	7.380 43.999 3.095 1.00 37.58
ATOM	614 N LEU A 608	9.321 42.989 2.562 1.00 36.93
ATOM	615 CA LEU A 608	9.211 41.926 3.557 1.00 38.22 10 444 41.008 3.513 1.00 40.70
ATOM	616 CB LEU A 608	10.33
ATOM	617 CG LEU A 608	10.649 40.006 4.669 1.00 40.62 9.509 39.016 4.612 1.00 40.77
ATOM	618 CD1 LEU A 608	3.505
ATOM	619 CD2 LEU A 608	12.002 00.00
ATOM	620 C LEU A 608	7.100
ATOM	621 O LEU A 608	1 10 10 17
ATOM	622 N GLY A 609	3.023 3.00 40 60
MOTA	623 CA GLY A 609	1 00 42 50
MOTA	624 C GLY A 609	7.200 44 10
ATQM	625 O GLY A 609	- 505 1 00 42 62
ATOM	626 N TRP A 610	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ATOM	627 CA TRP A 610	1 516 3 00 42 60
ATOM	628 CB TRP A 610	0.100 1 00 44 55
ATOM	629 CG TRP A 610	5 170 3 00 AE 2A
ATOM	630 CD2 TRP A 610	1.200 1.00 1.77
MOTA	631 CE2 TRP A 610	2.00
ATOM	632 CE3 TRP A 610	4.703 43.371
MOTA	633 CD1 TRP A 610	3.686 46.705 3.811 1.00 42.47 2.548 47.434 4.027 1.00 43.12
MOTA	634 NEI TRP A 610	1 999 49.488 5.361 1.00 44.90
ATOM	635 CZ2 TRP A 610	3.922 50.382 6.536 1.00 48.40
MOTA	636 CZ3 TRP A 610	J. Jul ·

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	637 CH2 TRP A 610	2.559 50.426 6.194 1.00 46.55	C
MOTA MOTA	637 CH2 TRP A 610 638 C TRP A 610	5.399 44.944 6.076 1.00 41.35	Ö
ATOM	639 O TRP A 610	4.000 43.032 5.000 1.00 40 58	N
ATOM	640 N ARG A 611	5.370 43.02 5 403 1 00 41 03	С
ATOM	641 CA ARG A 611	4.404 42.020 4.451 1.00 35 31	С
ATOM	642 CB ARG A 611	4.003 31.73	C
ATOM	643 CG ARG A 611	4 033 40 923 2.181 1.00 31.17	C
ATOM	644 CD ARG A 611	5 255 40 145 2.164 1.00 32.10	N
ATOM	645 NE ARG A 611 646 CZ ARG A 611	6.310 40.400 1.398 1.00 32.07	C N
ATOM		6.305 41.413 0.531 1.00 32.40	N
ATOM	647 NH1 ARG A 611 648 NH2 ARG A 611	7.418 39.687 1.581 1.00 31.27	Č
MOTA MOTA	649 C ARG A 611	4.450 42.222 - 505 1 00 43 41	0
ATOM	650 O ARG A 611	3.402 41.00 1 00 44 51	N
ATOM	651 N SER A 612	3.720 42.200 1 00 46 13	C
MOTA	652 CA SER A 612	7.454 41.393 9.001 1.00 44.76	C
ATOM	653 CB SER A 612 654 OG SER A 612	7 949 40 301 8.249 1.00 44.54	0 C
ATOM		5.365 42.494 9.822 1.00 46.95	0
ATOM	655 C SER A 612 656 O SER A 612	4.573 42.054 10.651 1.00 47.60	И
MOTA	657 N TYR A 613	5.754 43.759 9.787 1.00 47.45 5.290 44 738 10.752 1.00 49.45	Ċ
ATOM ATOM	658 CA TYR A 613	3.230 44. 1 00 46 02	С
MOTA	659 CB TYR A 613	0.020 40.000	С
MOTA	660 CG TYR A 613	5.230 47.308 10.749 1.00 39.72 4.879 47.688 12.040 1.00 39.52	c c
MOTA	661 CD1 TYR A 613	4 150 48 855 12.267 1.00 38.96	C
ATOM	662 CE1 TYR A 613	4 927 48 110 9.697 1.00 37.42	C C
MOTA	663 CD2 TYR A 613 664 CE2 TYR A 613	4 115 49.266 9.913 1.00 36.61	C
ATOM	664 CE2 TYR A 613 665 CZ TYR A 613	3.779 49.635 11.193 1.00 37.44	ő
ATOM ATOM	666 OH TYR A 613	3.130 30.02. 22.65 1 00 52 41	C
ATOM	667 C TYR A 613	3.104 2310	0
ATOM	668 O TYR A 613	3.002 43.111 2 420 1 00 56 04	N
ATOM	669 N ARG A 614	1 995 45 111 9.169 1.00 59.35	C
ATOM	670 CA ARG A 614	1 717 45 463 7.691 1.00 61.72	C
ATOM	671 CB ARG A 614 672 CG ARG A 614	0.299 45.367 7.188 1.00 66.15	C
ATOM	672 CG ARG A 614 673 CD ARG A 614	-0.201 46.679 6.575 1.00 69.45	N
MOTA MOTA	674 NE ARG A 614	-0.274 47.765 7.553 1.00 69.96 -1.038 48.846 7.421 1.00 69.24	C
ATOM	675 CZ ARG A 614	-1.030 40.000 66 17	N
MOTA	676 NH1 ARG A 614	-1.800 43.021 2 200 1 00 60 78	N
MOTA	677 NH2 ARG A 614	1 038 43 921 9.566 1.00 60.21	C
ATOM	678 C ARG A 614	0 128 44 090 9.901 1.00 61.10	0
MOTA	679 O ARG A 614 680 N GLN A 615	1.621 42.726 9.571 1.00 61.96	N
MOTA	680 N GLN A 615 681 CA GLN A 615	0.876 41.513 9.913 1.00 63.75	Ċ
ATOM ATOM	. 682 CB GLN A 615	1.414 10.00	Ċ
ATOM	683 CG GLN A 615	0.303 33.323 3 612 1 00 67 72	C
ATOM	684 CD GLN A 615	0.101 30.222	C
ATOM	685 OE1 GLN A 615	1 050 38 022 10 087 1.00 68.30	N
MOTA	686 NE2 GLN A 615 687 C GLN A 615	0.937 41.185 11.414 1.00 64.87	(
ATOM	687 C GLN A 615 688 O GLN A 615	0.104 40.432 11.927 1.00 64.17	7
MOTA MOTA	689 N SER A 616	1.907 41.780 12.111 1.00 67.26 2.096 41.547 13.545 1.00 68.99	Č
ATOM	690 CA SER A 616	2.050 34.04.	(
ATOM	691 CB SER A 616	2.002 30.130	(
ATOM	692 OG SER A 616	3.003 42 581 14.236 1.00 70.29	(
ATOM	693 C SER A 616 694 O SER A 616	3.962 43.096 13.644 1.00 70.23	,
ATOM	617	2.681 42.872 15.495 1.00 71.03	
MOTA	695 N SER A 617 696 CA SER A 617	3.437 43.822 16.307 1.00 72.40	,
MOTA MOTA	697 CB SER A 617	2.480 44.000 1 00 74 66	+
ATOM	698 OG SER A 617	1.075 30.00 1 00 72 58	1
ATOM	699 C SER A 617	4 000 43 363 18.585 1.00 73.15	
ATOM	700 O SER A 617	4 010 42 026 16,980 1.00 71.68	
ATOM	701 N ALA A 618 702 CA ALA A 618	5.690 41.174 17.874 1.00 71.19	
ATOM	702 CA ALA A 618 703 CB ALA A 618	4.798 40.687 19.050 1.00 71.51	
ATOM ATOM	704 C ALA A 518	6.182 39.993 17.044 1.00 71.07	
ATOM	705 O ALA A 618	3.413 33.100 4 00 70 12	
ATOM	706 N ASN A 619	9 100 38 512 3016, 486 1.00 68:44	
ATOM	707 CA **ASN A 619	7 525 37 149 16.939 1.00 70.83	
ATOM	708 CB ASN A 619 709 CG ASN A 619	7.550 36.937 18.452 1.00 72.69	
MOTA	> 610	8.504 37.315 19.136 1.00 73.24	
MOTA	711 ND2 ASN A 619	6.503 36.288 18.973 1.00 72.29	
MOTA MOTA	712 C ASN A 619	7.820 30.522 34 407 1 00 67 27	
MOTA	713 O ASN A 619	7.437 374 14 220 1 00 63 53	
ATOM	714 N LEU A 620	7.575 37 283 12.909 1.00 61.17	
MOTA	715 CA LEU A 620	6 176 37 519 12.694 1.00 61.45	
ATOM	716 CB LEU A 620 717 CG LEU A 620	5.291 36.520 13.431 1.00 61.73	
ATOM	717 CG LEU A 620		

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2001	710	CD1	र करते ।	A 62	n	3.846	36.973	13.422	1.00	61.94	C
ATOM	718 719	CD2		A 62	_	5.463	35.155	12.798	1.00	62.76	C
MOTA				A 62	•	8.386	37.899	11.722	1.00	59.14	C
ATOM	720			A 62	_	9.041	38.943	11.785	1.00	59.57	0
ATOM	721	_		A 62	-	8.195	37.194	10.615	1.00	56.65	N
MOTA	722	_		A 62	_	8.708	37.540	9.307	1.00	55.25	C
MOTA	723 724			A 62	_	0.045	36.859	9.023	1.00	56.50	С
MOTA	725			A 62	-	1.339	37.679	9.165	1.00	58.03	С
MOTA	726			A 62		2.507	36.909	8.514	1.00	58.11	С
MOTA	727			A 62		1.169	39.058	8.510	1.00	55.91	С
MOTA	728			A 62		7.656	36.988	8.367	1.00	53.52	С
MOTA	729	-		A 62		7.488	35.775	8.267	1.00	50.87	0
ATOM		-		A 62		6.952	37.879	7.682	1.00	52.96	N
ATOM	730 731			A 62		5.900	37.461	6.780	1.00	54.54	C
ATOM			CYS			4.686	38.369	6.983	1.00	55.42	C
MOTA	732 733			A 62		3.205	37.752	6.180	1.00	60.90	S
ATOM	734			A 62		6.314	37.425	5.302		54.09	С
ATOM	735	-		A 62		5.954	38.301	4.513	1.00	53.78	0
ATOM ATOM	736	_	PHE			7.062	36.392	4.924	1.00	55.17	N
ATOM	737		PHE			7.519	36.257	3.542	1.00	56.37	C
ATOM	738			A 62		8.329	34.979	3.371	1.00	55.59	C
ATOM	739			A 62	_	9.616	34.982	4.118	1.00	57.62	C
ATOM	740	-		A 62	_	0.677	35.787	3.712	1.00	59.06	C
MOTA	741			A 62		9.772	34.178	5.240	1.00	57.97	C
MOTA	742		PHE		_	1.885	35.788	4.417	1.00	59.87	C
MOTA	743		PHE			10.965	34.168	5.956	1.00	57.83	C
ATOM	744	_		A 62	3 1	2.027	34.973	5.547	1.00	58.68	C
ATOM	745	C		A 62	3	6.335	36.241	2.595	1.00	56.58	C
ATOM	746	0	PHE	A 62	3	6.317	36.936	1.576		56.24	0
ATOM	747	N	ALA	A 62	4	5.348	35.433	2.958		58.43	N
ATOM	748		ALA			4.128	35.291	2.191		58.80	C
ATOM	749	CB	ALA	A 62	4	4.317	34.258	1.117		59.29	C
ATOM	750	C	ALA	A 62	4	3.004	34.880	3.128		59.45	0
MOTA	751		ALA			3.240	34.339	4.218		60.17	N
ATOM	752		PRO			1.758	35.134	2.720		58.79	C
ATOM	753		PRO			1.316	35.831	1.504		58.23 58.30	Č
ATOM	754	CA	PRO			0.610	34.777	3.552		58.44	Ċ
MOTA	755	CB	PRO		•	-0.574	35.130	2.655		58.45	č
MOTA	756		PRO		•	-0.067	36.300	1.902 3.990		57.40	C
ATOM	757	C	PRO			0.602	33.312	4.973		56.41	Ö
ATOM	758	0	PRO			-0.045	32.962	3.267		57.37	N
ATOM	759		ASP			1.342	32.471 31.036	3.563		57.73	C
MOTA	760		ASP			1.404	30.235	2.379		58.49	C
MOTA	761		ASP			0.836	30.260	1.147		59.16	С
ATOM	762		ASP			1.750 2.320	31.328	0.839		59.10	0
MOTA	763		ASP			1.888	29.209	0.477		59.56	0
ATOM	764		ASP			2.820	30.554	3.873		57.51	С
ATOM	765		ASP ASP			3.178	29.408	3.586		56.84	0
ATOM	766		LEU			3.622	31.436	4.455		57.58	N
ATOM	767	N	PEO			4.994	31.094	4.793		58.80	C
ATOM	768	CA CB	LEU			5.868	31.002	3.537	1.00	57.66	C
ATOM	7,69 770	CG	LEU			7.313	30.521	3.726	1.00	55.56	С
ATOM ATOM	771					7.293	29.144	4.404		53.88	С
ATOM	772		LEU			8.040	30.466	2.365		55.45	С
ATOM	773	C	LEU			5.598	32.120	5.723		59.11	C
MOTA	774	Ö	LEU			6.565	32.792	5.366		59.97	0
ATOM	775	N	ILE.			5.021	32.228	6.913		59.55	N
ATOM	776	CA	ILE			5.493	33.150	7.933		60.24	C
ATOM	777	СВ	ILE			4.299	33.706	8.749		59.38	C
ATOM	778		ILE			4.716	34.959	9.522		59.44	C
ATOM	779		ILE			3.146	34.065	7.805		59.16	C
ATOM	780	CD1	ILE	A 6	28	1.926	34.642	8.530		58.40	C
ATOM	781	С	ILE			6.480	32.456	8.894		61.87	Ç
ATOM	· 782	0	ILE			6.488	31.224	9.012		61.25	0
ATOM	783	N	ILE			7.322	33.256	9.557		64.50	N
MOTA	784	CA	ILE			8.294	32.752	10.529		66.21	C C
ATOM '	785	CB	ILE			9.670	32.594	9.906		64.27	C
ATOM	786	CG2	ILE			10.575	31.858	10.871		62.84	Č
MOTA			ILE			9.538	31.824	8.593		64.22 65.97	C
ATOM	788 [.]	+ CD1	ILE			10.834	31.451	7.949		69.29	C
ATOM	789	C	ILE	A 6	29	8.403	33.633	11.783		69.32	Ö
ATOM	790	0	ILE			8.636	34.840	11.716		73.87	N
ATOM	791	N	ASN			8.233	32.982	12.929		77.51	C
MOTA	792	CA	ASN			8.243	33.594	14.262		79.26	C
ATOM	793	CB	ASN			7.174	32.890	15.084		81.12	C
MOTA	794	CG	ASN			6.857	31.513	14.530		80.98	Ö
ATOM	795	OD1	ASN			6.259	31.392	13.464 15.235		81.86	N
MOTA	796	ND2				7.291	30.467	14.972		79.33	C
ATOM	797	C	ASN			9.593	33.477 33.424	14.320		79.88	Ö
MOTA	798	0	ASN	A 6	30	10.639	JJ.444	17.360	_,,,,		

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~ moN	799 N GLU A 631	9.563 33.460 16.309 1.00 81.77	N C
MOTA MOTA	800 CA GLU A 631	10.777 33.282 17.120 1.00 83.18 10.788 34.200 18.352 1.00 83.72	С
ATOM	801 CB GLU A 631	10.768 31.200 18.170 1.00 85.97	C
ATOM	802 CG GLU A 631 803 CD GLU A 631	11.944 36.198 19.486 1.00 87.01	C 0
ATOM	803 CD GLU A 631 804 OE1 GLU A 631	12.756 37.150 19.446 1.00 88.44	ŏ
ATOM ATOM	805 OE2 GLU A 631	11.432 33.003 17 570 1 00 93 80	C
ATOM	806 C GLU A 631	10.731 31.00 10 10 10 10 10	0
ATOM	807 O GLU A 631	0 964 31 045 16.927 1.00 84.11	N C
ATOM	808 N GLN A 632 809 CA GLN A 632	9.634 29.642 17.250 1.00 84.32	Ċ
ATOM ATOM	809 CA GLN A 632 810 CB GLN A 632	8.210 29.490 17.781 1.00 84.79 7.702 30.704 18.580 1.00 85.42	С
ATOM	811 CG GLN A 632	7.702 30 10.075 1 00 86 24	С
ATOM	812 CD GLN A 632	9 389 32 078 20.446 1.00 86.57	0
ATOM	813 OE1 GLN A 632 814 NE2 GLN A 632	9.247 30.001 20.342 1.00 86.71	N C
MOTA	814 NE2 GLN A 632 815 C GLN A 632	9.817 28.717 16.048 1.00 84.88	Ö
ATOM ATOM	816 O GLN A 632	3.300 2 100 85 03	N
ATOM	817 N ARG A 633	10.534 25.230 13.844 1.00 84.40	C
ATOM	818 CA ARG A 633 819 CB ARG A 633	9.676 28.608 12.827 1.00 84.69	C C
MOTA	819 CB ARG A 633 820 CG ARG A 633	9.375 27.332 12.035 1.00 82.95	č
ATOM ATOM	821 CD ARG A 633	9.041 2 0 001 1 00 80 77	N
ATOM	822 NE ARG A 633	7 357 27 779 9.674 1.00 80.47	C
ATOM	823 CZ ARG A 633	7.066 26.552 10.078 1.00 80.33	n n
MOTA	824 NH1 ARG A 633 825 NH2 ARG A 633	6.437 28.500 9.041 1.00 79.62	C
ATOM ATOM	825 NH2 ARG A 633 826 C ARG A 633	12.151 28.868 13.260 1.00 84.65 12.707 28.214 12.370 1.00 83.28	O
ATOM	827 O ARG A 633	12.707 20.222 10.00 7 00 05 33	N
ATOM	828 N MET A 634	12.001 25.536 13.401 1.00 85.98	C
MOTA	829 CA MET A 634 830 CB MET A 634	14.044 32.004 13.794 1.00 86.12	C
ATOM ATOM	830 CB MET A 634 831 CG MET A 634	13.353 32.919 12.792 1.00 86.37 13.353 34.635 13.318 1.00 87.69	Š
MOTA	832 SD MET A 634	13.320 34.033 100 95 32	C
MOTA	833 CE MET A 634	15 030 30 703 14 117 1.00 85.46	С 0
ATOM	834 C MET A 634 835 O MET A 634	16.234 29.945 13.982 1.00 84.73	N
MOTA MOTA	836 N THR A 635	14.553 28.721 14.877 1.00 86.09 15.402 27.797 15.614 1.00 86.55	С
ATOM	837 CA THR A 635	13,402 27,131	C
ATOM	838 CB THR A 635	15 356 26 050 17 335 1.00 88.79	o C
MOTA	839 OG1 THR A 635 840 CG2 THR A 635	13.234 26.758 16.415 1.00 87.34	C
MOTA MOTA	841 C THR A 635	15.750 26.710 14.608 1.00 85.94 16.881 26.230 14.574 1.00 86.17	0
ATOM	842 O THR A 635	16.881 26.230 14.574 1.00 86.17 14.766 26.336 13.792 1.00 85.33	N
MOTA	843 N LEU A 636 844 CA LEU A 636	14 056 25 334 12.749 1.00 84.79	C C
ATOM	844 CA LEU A 636 845 CB LEU A 636	13.751 25.308 11.808 1.00 83.47	C
MOTA MOTA	846 CG LEU A 636	13.933 23.100 03 55	С
ATOM	847 CD1 LEU A 636	12 695 24 634 9.698 1.00 83.38	C
MOTA	848 CD2 LEU A 636 849 C LEU A 636	16.199 25.776 11.977 1.00 85.06	C 0
MOTA	849 C LEU A 636 850 O LEU A 636	16.183 26.818 11.325 1.00 85.77	Ŋ
ATOM ATOM	851 N PRO A 637	17.200 24.303	С
ATOM	852 CD PRO A 637	19 577 25 209 11.397 1.00 84.54	C
MOTA	853 CA PRO A 637 854 CB PRO A 637	18.838 23.863 10.744 1.00 84.45	C C
ATOM ATOM	854 CB PRO A 637 855 CG PRO A 637	18.530 22.959 11.901 1.00 84.54 18.530 26.396 10.487 1.00 84.99	Č
ATOM	856 C PRO A 637	18.901 20.330 20.300 1 00 95 73	0
ATOM	857 O PRO A 637 858 N ASP A 638	20.099 26.907 10.751 1.00 84.24	N C
MOTA	620	20.783 28.004 10.076 1.00 83.39	c
MOTA MOTA	859 CA ASP A 638 860 CB ASP A 638	21.553 27.436 8.877 1.00 84.05 22.994 27.081 9.232 1.00 85.20	C
MOTA	861 CG ASP A 638	22.994 21.00 95.09	0
ATOM	862 OD1 ASP A 638	23.040 27.010 8.812 1.00 86.85	0
MOTA	863 OD2 ASP A 638 864 C ASP A 638	20.167 29.338 9.677 1.00 82.26	C 0
MOTA	864 C ASP A 638 865 O ASP A 638	20.880 30.197 9.152 1.00 82.16	N
MOTA MOTA	866 N MET A 639	10.002 23.333 1 00 80 47	С
ATOM	867 CA MET A 639	17 175 30 672 8.544 £.00 82.98	-, C
ATOM	868 CB MET A 639 869 CG MET A 639	17.539 29.984 7.220 1.00 85.51	C S
MOTA	869 CG MET A 639 870 SD MET A 639	18.789 30.779 . 6.138 1.00 86.82	s C
ATOM ATOM	871 CE MET A 639	20.135 29.570 6.267 1.00 86.34	C
MOTA	872 C MET A 639	17.845 31.073 21.000 1.00 78.01	0
ATOM	873 O MET A 639 874 N TYR A 640	18 611 32.702 11.049 1.00 77.21	N C
MOTA	3 640	18.259 33.634 12.117 1.00 75.61	¢
MOTA MOTA	876 CB TYR A 640	18.241 32.987 13.500 1.00 75.02	С
ATOM	877 CG TYR A 640	16 625 34 502 14.766 1.00 74.86	C
ATOM	878 CD1 TYR A 640	16.625 34.502 14.766 1.00 74.00 16.352 35.496 15.713 1.00 73.98	С
MOTA	879 CE1 TYR A 640	**************************************	

7001	000	CD2 TYR A 640	18.938	34.503	15.403	1.00 73.13	·c	
MOTA	880 881	CE2 TYR A 640	18.676	35.488	16.342	1.00 73.23	C	
ATOM ATOM	882	CZ TYR A 640	17.389	35.984	16.491	1.00 73.89	C	
ATOM	883	OH TYR A 640	17.154	36.994	17.394	1.00 75.08	0	
ATOM	884	C TYR A 640	19.318	34.701	12.113	1.00 75.43	C 0	
ATOM	885	O TYR A 640	19.046	35.884	12.321	1.00 75.02		
ATOM	886	N ASP A 641	20.544	34.257	11.880	1.00 75.46	N	
ATOM	887	CA ASP A 641	21.689	35.146	11.830	1.00 75.75	C	
ATOM	888	CB ASP A 641	22.955	34.323	11.610	1.00 78.65	C	
	889	CG ASP A 641	22.875	33.478	10.369	1.00 81.73	C	
ATOM	890	OD1 ASP A 641	21.798	32.867	10.152	1.00 82.69	0	
ATOM	891	OD2 ASP A 641	23.886	33.431	9.626	1.00 82.69	0	
ATOM	892	C ASP A 641	21.468	36.120	10.686	1.00 73.93	C	
ATOM		O ASP A 641	22.159	37.136	10.569	1.00 73.31	0	
ATOM	893	N GLN A 642	20.493	35.787	9.844	1.00 73.01	N	
MOTA	894 895	CA GLN A 642	20.130	36.620	8.704	1.00 72.29	C	
MOTA	896	CB GLN A 642	20.221	35.819	7.397	1.00 73.06	C	
ATOM	897	CG GLN A 642	19.405	34.549	7.347	1.00 73.57	C	
ATOM	898	CD GLN A 642	20.250	33.346	6.960	1.00 74.07	C	
ATOM	899	OE1 GLN A 642	20.693	32.591	7.813	1.00 76.16	0	
MOTA	900	NE2 GLN A 642	20.481	33.170	5.665	1.00 73.49	N	
MOTA	901	C GLN A 642	18.723	37.166	8.908	1.00 69.89	C	
MOTA	902	O GLN A 642	18.427	38.302	8.538	1.00 70.05	0	
MOTA	903	N CYS A 643	17.859	36.355	9.510	1.00 68.20	Ŋ	
MOTA	904	CA CYS A 643	16.493	36.782	9.798	1.00 66.80	C	
MOTA		CB CYS A 643	15.691	35.642	10.400	1.00 64.52	C	
ATOM	905	SG CYS A 643	15.620	34.242	9.324	1.00 62.12	S	
ATOM	906	C CYS A 643	16.538	37.914	10.B00	1.00 66.28	C	
ATOM	907	O CYS A 643	15.609	38.716	10.888	1.00 64.96	0	
ATOM	908 909	N LYS A 644	17.627	37.957	11.561	1.00 66.18	Ŋ	
ATOM		CA LYS A 644	17.812	38.988	12.565	1.00 66.37	C	
ATOM	910	CB LYS A 644	18.959	38.608	13.509	1.00 68.66	C	
ATOM	911 912	CG LYS A 644	19.070	39.500	14.740	1.00 72.51	C	
MOTA	913	CD LYS A 644	20.089	38.962	15.740	1.00 75.50	<u>c</u>	
MOTA	914	CE LYS A 644	20.137	39.791	17.025	1.00 77.12	C	
MOTA	915	NZ LYS A 644	21.143	39.250	17.988	1.00 78.05	N	
MOTA	916	C LYS A 644	18.092	40.318	11.866	1.00 64.80	C	
MOTA		O LYS A 644	17.910	41.391	12.446	1.00 65.34	0	
MOTA	917 918	N HIS A 645	18.510	40.230	10.606	1.00 63.00	N	
MOTA		CA HIS A 645	18.802	41.405	9.801	1.00 59.77	C	
ATOM	919	CB HIS A 645	19.743	41.037	8.659	1.00 59.92	c	
ATOM	920	CG HIS A 645	21,140	40.753	9.109	1.00 59.70	C	
MOTA	921	CD2 HIS A 645	21.852	39.602	9.132	1.00 58.68	C	
ATOM	922	ND1 HIS A 645	21.960	41.728	9.638	1.00 58.42	Ŋ	
MOTA	923	CE1 HIS A 645	23.117	41.185	9.966	1.00 59.06	C	
MOTA	924 925	NE2 HIS A 645	23.080	39.898	9.671	1.00 59.02	N	
ATOM	926	C HIS A 645	17.498	41.929	9.260	1.00 58.18	C	
ATOM	927	O HIS A 645	17.203	43.114	9.396	1.00 57.96	0	
ATOM	928	N MET A 646	16.713	41.037	8.659	1.00 57.42	N	
MOTA	929	CA MET A 646	15.404	41.402		1.00 56.10	C	
MOTA	930	CB MET A 646	14.743	40.195	7.425	1.00 56.15	C	
MOTA	931	CG MET A 646	15.430	39.717	6.142	1.00 57.62	C	
MOTA	932	SD MET A 646	15.933	37.957		1.00 59.85	S	
ATOM	933	CE MET A 646	14.564	37.207		1.00 58.77	C	
ATOM	934	C MET A 646	14.505	41.896	9.240	1.00 54.90	C	
ATOM ATOM	935	O MET A 646	13.758	42.854		1.00 54.02	0	
ATOM	936	N LEU A 647	14.588	41,232		1.00 54.19	N	
ATOM	937	CA LEU A 647	13.784	41.589		1.00 51.72	C	
ATOM	938	CB LEU A 647	14.165	40.699	12.731	1.00 50.92	C	
ATOM	939	CG LEU A 647	13.183	39.576	13.077		C	
ATOM	940		12.193	39.278	11.918	1.00 49.77	C	
ATOM	941	CD2 LEU A 647	14.018	38.359		1.00 49.26	C	
ATOM	942	C LEU A 647	14.015	43.041			C	
ATOM	943	O LEU A 647	13.101	43.763			0	
ATOM	944	N TYR A 648	15.255	43.472	11.724		N	
ATOM	945	CA TYR A 648	15.596		12.008		C	
ATOM	946	CB TYR A 648	17.015	45.144	11.531		C .	
ATOM	947	CG TYR A 648 '	17.354				c ·	
MOTA	948	CD1 TYR A 648	17.469	47.365	12.671		C	
	949		17.808		12-,633	1.00 40.43	. C .	
ATOM.	950		17.578		10.285		C 17	(8)
ATOM	951		17.913	48.608			C	•
ATOM	952		18.031				C	
ATOM	953		18.393			-	0	
MOTA	954		14.620		11.316		C	
MOTA	955		14.071		11.940		0	
MOTA	956		14.413		10.023		N	
MOTA	95 7		13.535				C	
MOTA	958		13.394	45.861	7.801		C	
MOTA	959		12.596	46.840			C	
MOTA	960		14.772	_	7.237	1.00 47.74	С	
ATOM	200							

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ATOM	961		VAL A		12.155	46.528	9.810	1.00 48.22 1.00 48.77	C 0
ATOM	962		VAL A		11.720 11.468	47.630 45.397	10.119 9.964	1.00 49.23	N
ATOM	963	n Ca	SER A		10.114	45.383	10.523	1.00 50.65	C
ATOM ATOM	964 965	CB	SER A		9.585	43.941	10.637	1.00 51.24	C 0
ATOM	966	OG	SER A	650	10.393	43.161	11.500 11.890	1.00 53.81 1.00 50.66	Č
MOTA	967	C	SER A		10.014 9.070	46.056 46.803	12.156	1.00 49.51	0
ATOM	968 969	O N	SER A		10.991	45.787	12.753	1.00 50.55	N
ATOM ATOM	970	CA	SER A		11.017	46.361	14.095	1.00 51.09	C C
ATOM	971	CB	SER A		12.170	45.770 45.701	14.899 14.098	1.00 51.47 1.00 55.27	ő
MOTA	972	OG	SER A		13.335 11.163	47.873	14.018	1.00 51.11	C
ATOM ATOM	973 974	С 0	SER A		10.522	48.610	14.763	1.00 52.23	O N
ATOM	975	N	GLU A	652	12.004	48.341	13.111 12.954	1.00 51.58 1.00 52.96	C
ATOM	976	CA	GLU A		12.206 13.461	49.771 50.009	12.101	1.00 53.40	C
ATOM ATOM	977 978	CB CG	GLU A		14.158	51.358	12.295	1.00 52.80	C
ATOM	979	CD	GLU A	652	14.660	51.550	13.709	1.00 53.12 1.00 52.90	0
ATOM	980	OE1	GLU A		14.836 14.884	50.524 52.713	14.405 14.116	1.00 51.83	0
MOTA	981 982	OE2 C	GLU A		10.964	50.330	12.254	1.00 54.01	C
ATOM ATOM	983	Ö	GLU A		10.541	51.470	12.483	1.00 54.79	O N
ATOM	984	N	LEU A		10.366	49.503 49.905	11.408 10.661	1.00 55.58 1.00 57.21	Ċ
ATOM	985	CA	LEU A		9.184 8.998	48.956	9.470	1.00 53.73	C
ATOM ATOM	986 987	CB CG	LEU A		8.452	49.539	8.174	1.00 51.55	C C
ATOM	988	CD1	LEU A	653	9.167	50.851	7.831 7.062	1.00 51.81 1.00 49.87	C
ATOM	989		LEU A		8.616 7.981	48.497 49.877	11.608	1.00 58.50	С
MOTA MOTA	990 991	C O	LEU A		6.856	50.233	11.243	1.00 60.00	n O
ATOM	992	N	HIS A	4 654	8.256	49.485	12.847 13.890	1.00 58.33 1.00 57.70	C
MOTA	993	CA	HIS A		7.244 7.328	49.384 48.002	14.553	1.00 57.91	С
ATOM ATOM	994 995	CB CG	HIS A		6.462	47.854	15.761	1.00 58.06	C
ATOM	996	CD2	HIS A	4 654	6.758	47.914	17.083 15.686	1.00 58.87 1.00 58.93	Ŋ
MOTA	997	ND1	HIS A		5.099 4.593	47.664 47.617	16.908	1.00 59.08	С
ATOM ATOM	998 999	CE1 NE2			5.579	47.766	17.769	1.00 59.13	N C
ATOM	1000	C	HIS A	A 654	7.509	50.466	14.919 15.401	1.00 56.80 1.00 55.50	O
MOTA	1001	0		A 654 A 655	6.583 8.784	51.120 50.635	15.256	1.00 56.90	N
ATOM ATOM	1002 1003	N CA		A 655	9.204	51.650	16.210	1.00 58.18	C
MOTA	1004	CB	ARG A	A 655	10.726	51.625 52.736	16.385 17.274	1.00 58.72 1.00 57.26	C
ATOM	1005	CG		A 655 A 655	11.267 12.768	52.730	17.303	1.00 57.06	C
ATOM ATOM	1006 1007	CD NE		A 655	13.384	53.342	16.164	1.00 58.45	N C
ATOM	1008	CZ	ARG A	A 655	13.349	54.656 55.464	15.942 16.780	1.00 60.38 1.00 59.14	N
ATOM	1009	NH1 NH2		A 655 A 655	12.712 13.992	55.173	14.899	1.00 58.16	N
ATOM ATOM	1010 1011	C		A 655	8.809	53.043	15.720	1.00 58.84	C O
ATOM	1012	0	ARG I	A 655	8.391	53.896	16.506 14.417	1.00 59.48 1.00 58.42	N
ATOM	1013	N		A 656 A 656	8.946 8.636	53.268 54.566	13.830	1.00 58.31	С
ATOM ATOM	1014 1015	CA CB		A 656	9.574	54.828	12.643	1.00 59.21	C
ATOM	1016	CG	LEU 2	A 656	10.243	56.207	12.513 13.857	1.00 58.41 1.00 57.20	C
MOTA	1017	CD1		A 656 A 656	10.743 11.401	56.697 56.108	11.549	1.00 58.13	С
ATOM ATOM	1018 1019	CD2		A 656	7.185	54.639	13.382	1.00 58.15	C
ATOM	1020	ŏ	LEU ?	A 656	6.683	55.714	13.056 13.382	1.00 56.91 1.00 58.20	O N
ATOM	1021	N		A 657	6.525 5.125	53.483 53.366	12.985	1.00 58.07	. с
ATOM	1022 1023	CA CB		A 657 A 657	4.212	53.969	14.049	1.00 59.63	C
ATOM ATOM	1024	CG	GLN .	A 657	4.148	53.161	15.325	1.00 63.04 1.00 66.34	C
MOTA	1025	CD		A 657	2.815	53.310 54.424	16.047 16.371		ŏ
ATOM	1026 1027	OE1 NE2		A 657 A 657	2.389 2.151	52.184	16.307	1.00 66.39	N
ATOM ATOM	1027	, C		A 657	4.845	54.045			. c
ATOM	1029	0		A 657	3.973	54.906		1.00 56.39 1.00 53.531	
MOTA	1030	N CA		A 658 A 658	5.588 5.440		··9.294	1.00 49.80	С
ATOM ATOM	1031 1032	CB		A 658	6.506	53.641	8.343	1.00 49.06	C
ATOM	1033	CG1	VAL	A 658	6.385				c
ATOM	1034	CG2		A 658 A 658	7.871 4.066			1.00 47.47	С
MOTA MOTA	1035 1036	C		A 658	3.486	52.874	9.018	1.00 48.37	<i>M</i>
ATOM	1037	N	SER	A 659	3.536	54.857			n C
MOTA	1038	CA		A 659	2.233 1.498				С
MOTA	1039 1040	CB OG		A 659 A 659	2.068	56.781	6.199	1.00 38.28	0
MOTA MOTA	1041	C		A 659	2.371			1.00 44.11	С

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MOTA	1042	0	SER A		3.474	53.878	5.415	1.00 45.44	O N
ATOM	1043	N	TYR A		1.245	53.636	5.354 4.043	1.00 43.08 1.00 42.59	Č
ATOM	1044	CA	TYR A		1.259 -0.132	52.996 52.480	3.694	1.00 40.73	С
ATOM	1045	CB CG	TYR A		-0.179	51.708	2.397	1.00 39.79	С
ATOM ATOM	1046 1047	CD1	TYR A		0.551	50.522	2.236	1.00 39.97	C
ATOM	1048	CEI	TYR A		0.519	49.819	1.029	1.00 39.11	C
ATOM	1049	CD2	TYR A	660	-0.940	52.164	1.321	1.00 38.28 1.00 36.89	c
MOTA	1050	CE2	TYR A		-0.976	51.470	0.117 -0.020	1.00 36.09	č
ATOM	1051	CZ	TYR A		-0.255 -0.347	50.301 49.584	-1.183	1.00 40.38	0
ATOM	1052	OH	TYR A		1.698	54.002	2.998	1.00 43.53	С
ATOM ATOM	1053 1054	С 0	TYR A		2.381	53.682	2.023	1.00 40.82	0
ATOM	1055	N	GLU A		1.281	55.235	3.216	1.00 45.17	N C
MOTA	1056	CA	GLU A	661	1.621	56.316	2.319	1.00 47.43 1.00 51.28	c
MOTA	1057	CB	GLU A		0.852	57.571 58.562	2.746 1.631	1.00 54.68	č
MOTA	1058	CG	GLU A		0.492 -1.004	58.560	1.301	1.00 56.32	С
ATOM	1059 1060	CD OE1	GLU A		-1.820	58.704	2.231	1.00 58.17	0
MOTA MOTA	1061	OE2	GLU A		-1.379	58.416	0.123	1.00 57.76	O C
ATOM	1062	C	GLU A	661	3.136	56.575	2.382	1.00 46.75	0
MOTA	1063	0	GLU A		3.822	56.651	1.355 3.598	1.00 46.32 1.00 45.63	N
ATOM	1064	N	GLU A		3.652 5.074	56.723 56.988	3.771	1.00 45.45	С
MOTA	1065	CA CB	GLU A		5.412	57.222	5.256	1.00 44.64	С
ATOM ATOM	1066 1067	CG	GLU A		4.627	58.363	5.915	1.00 44.59	C
ATOM	1068	CD	GLU A		4.857	58.467	7.419	1.00 46.79	C O
ATOM	1069	OE1	GLU A	662	5.028	57.414	8.079	1.00 46.01 1.00 47.97	0
ATOM	1070	OE2			4.854	59.609 55.805	7.952 3.239	1.00 44.16	č
ATOM	1071	C	GLU A		5.866 6.868	55.962	2.542	1.00 45.27	0
ATOM	1072 1073	O N	GLU A		5.386	54.614	3.561	1.00 43.82	N
ATOM ATOM	1073	CA	TYR A		6.027	53.394	3.128	1.00 41.69	C
MOTA	1075	CB	TYR A		5.221	52.199	3.614	1.00 39.69	C C
MOTA	1076	CG	TYR A		5.533	50.923	2.882 3.010	1.00 40.59 1.00 42.11	Č
MOTA	1077	CD1			6.774 7.082	50.297 49.131	2.280	1.00 43.17	С
MOTA	1078	CE1			4.601	50.361	2.012	1.00 41.89	C
ATOM ATOM	1079 1080	CE2			4.889	49.206	1.280	1.00 43.67	C
ATOM	1081	CZ	TYR A		6.130	48.593	1.410	1.00 44.34	C 0
ATOM	1082	QH	TYR A		6.408	47.455	0.661	1.00 46.31 1.00 41.38	c
ATOM	1083	C	TYR A		6.162	53.365 53.094	1.615 1.104	1.00 41.30	ő
ATOM	1084	0	TYR A		7.240 5.079	53.660	0.899	1.00 40.00	N
ATOM	1085 1086	n Ca	LEU A		5.094	53.634	-0.562	1.00 37.88	C
MOTA MOTA	1087	CB		664	3.685	53.905	-1.103	1.00 37.12	C
ATOM	1088	CG	LEU A	4 664	2.711	52.724	-1.027	1.00 37.53	C
ATOM	1089	CD1			1.373	53.176 51.495	-1.611 -1.786	1.00 37.45 1.00 35.07	č
MOTA	1090	CD2	LEU A	664	3.260 6.101	54.615	-1.175	1.00 37.10	С
MOTA	1091 1092	C O	LEU A		6.612	54.402	-2.285	1.00 35.66	0
MOTA MOTA	1093	N	CYS ?		6.393	55.681	-0.442	1.00 35.22	C N
ATOM	1094	CA	CYS A		7.338	56.679	-0.915 -0.299	1.00 37.04 1.00 37.41	c
MOTA	1095	CB	CYS I		7.020	58.047 58.846	-1.006	1.00 40.10	S
MOTA	1096	SG	CYS I		5.554 8.772	56.275	-0.589	1.00 38.08	C
ATOM	1097 1098	C	CYS 2		9.692	56.491	-1.387	1.00 37.65	0
ATOM ATOM	1099	N	MET A		8.948	55.693	0.592	1.00 37.80	N
ATOM	1100	CA	MET A		10.240	55.206	1.037	1.00 37.89 1.00 39.50	C
MOTA	1101	CB	MET I		10.137	54.654 55.691	2.463 3.517	1.00 39.30	Č
MOTA	1102	CG		A 666	9.831 9.712	54.903	5.105	1.00 44.06	S
ATOM	1103 1104	SD CE		A 666 A 666	11.484	54.731	5.457	1.00 44.38	C
ATOM ATOM	1104	C		A 666	10.738	54.087	0.116	1.00 38.44	C
ATOM	1106	Ö		A 666	11.933	53.997	-0.171	1.00 39.89	O N
ATOM	1107	N		A 667	9.821	53.239	-0.350	1.00 36.26 1.00 35.46	C
ATOM	1108	CA		A 667	10.199 9.053	52.127 51.116	-1.211 -1.322	1.00 35.39	C
ATOM	1109	CB		A 667 A 667	9.457		-1.876	1.00 33.89	С
MOTA ATOM	1110 1111	CG CD		A 667	8.394	48.703	-1.545	1.00,34.45	C
ATOM	1112	CE		A 667	7.002	49.059	-2.109	1.00 35.03	: C
ATOM	1113		LYS	A 667	7.042	49.199	-3.603	1.00 35.14	N C
MOTA	1114	C		A 667	10.580		-2.582 -3.293	1.00 34.54 1.00 34.12	Ö
ATOM	1115			A 667	11.343 10.066		-2.951	1.00 34.65	N
MOTA	1116 1117	N CA		A 668 A 668	10.384		-4.266	1.00 36.42	C
MOTA MOTA	1117			A 668	9.336		-4.743	1.00 34.99	C
ATOM	1119			A 668	8.124	54.774	-5.157	1.00 32.53	O
ATOM	1120	CG2	2 THR	A 668	9.857		-5.924 -4.205	1.00 32.92	G
ATOM	1121			A 668	11.772 12.601		-4.205 -5.081	1.00 37.13	d
MOTA	1122	0	THE	A 668	12.001				

86

л пом	1123	n 1	LEU A	669	12.012	•••	-3.169	1.00			N C
MOTA MOTA	1124	CA 1	LEU A	669	13.289	• • • • •	-2.983 -1.704	1.00			č
MOTA	1125		LEU A		13.257	• • • • • •	-1.774	1.00	33.99		С
ATOM	1126		LEU A		12.440 12.520	59.237	-0.426	1.00	32.37		C
ATOM	1127		LEU A LEU A		12.966	59.498	-2.864	1.00			C
atom Atom	1128 1129		LEU A		14.420	55.401	-2.927	1.00			Ö
ATOM	1130	0	LEU A	669	15.590	55.725	-3.136 -2.636	1.00			N
ATOM	1131		LEU A		14.069 15.069	54.157 53.111	-2.596	1.00	46.88		C
MOTA	1132	CA CB	LEU A LEU A	670	14.539	51.876	-1.885	1.00	45.00		C
ATOM ATOM	1133 1134	CG	LEU A	670	14.451	51.950	-0.367		43.33 44.23		Č
ATOM	1135	CD1	LEU A	670	13.806	50.676 52.114	0.164 0.211		41.37		C
ATOM	1136		LEU A		15.843 15.473	52.738	-4.010	1.00	49.44		C
ATOM	1137 1138		LEU A LEU A		16.655	52.578	-4.296	1.00	52.76		O N
ATOM ATOM	1139		LEU A		14.492	52.585	-4.893	1.00	51.63 53.74		C
ATOM	1140		LEU A		14.754	52.241 52.173	-6.289 -7.055		53.98		С
MOTA	1141		LEU A		13.428 13.394	51.837	-8.559	1.00	55.20		C
MOTA	1142 1143		LEU A		13.602	53.103	-9.350	1.00	55.57		C
MOTA MOTA	1144	CD2	LEU A	671	14.442	50.772	-8.933 -6.917	1.00	55.85 55.81		č
ATOM	1145	C	LEU A	671	15.670	53.291 52.986	-7.741	1.00	54.57		0
MOTA	1146		LEU A		16.531 15.482	54.534	-6.502	1.00	58.80		N
ATOM	1147 1148	N CA	LEU A		16.268	55.641	-7.022		62.80		C
ATOM ATOM	1149	CB	LEU A	672	15.334	56.799	-7.371 -8.259		61.85 60.89		Ċ
ATOM	1150	CG	LEU A		14.134 13.084	56.447 57.539	-8.128	1.00	61.15		С
ATOM	1151		LEU A		14.582	56.266	-9.706		59.60		C
ATOM ATOM	1152 1153	CD2 C	LEU A		17.268	56.092	-5.970		65.84 66.23		0
ATOM	1154	Ö	LEU A	672	17.505	57.281	-5.798 -5.260		69.11		N
ATOM	1155	N	SER A	673	17.860 18.800	55.145 55.511	-4.221	1.00	71.93		C
ATOM	1156	CA CB	SER A SER A	673	18.906	54.382	-3.210	1.00	71.47		c o
ATOM ATOM	1157 1158	OG	SER A	673	18.853	54.877	-1.885	1.00	71.88 75.36		c
ATOM	1159	C	SER A	673	20.170 20.369		-4.782 -5.349	1.00	76.01		0
ATOM	1160	0	SER A	673 674	21.108		-4.651	1.00	78.75		N C
ATOM ATOM	1161 1162	N CA	SER A	674	22.460	55.149	-5.134		81.66		C
ATOM	1163	CB	SER A	674	23.442	54.046 54.142	-4.651 -3.253		82.06 80.07		0
ATOM	1164	0G	SER A	674	23.730 22.578		-6.651	1.00	83.67		C
ATOM	1165 1166	C	SER A	674	21.590	55.440	-7.385		83.37		o n
ATOM ATOM	1167	N	VAL A	675	23.832		-7.086		85.82 87.39		C
ATOM	1168	CA	VAL A	675	24.209 23.966		-8.471 -8.851		86.61		С
MOTA	1169	CB	VAL A		24.995		-9.881	1.00	86.91		C
ATOM ATOM	1170 1171	CG1 CG2			22.560	57.257	-9.382		86.19 89.13		C
ATOM	1172		VAL A	675	25.698				88.61		Ō
MOTA	1173		VAL A		26.406 26.191			1.00	90.50		N
MOTA	1174 1175		PRO A		25.444	54.551	-10.891	1.00	91.19		C
MOTA MOTA	1176		PRO A	676	27.612	54.473	-9.809		91.78 91.81		č
ATOM	1177	CB	PRO P		27.767 26.454		-11.326 -11.753		91.79		C
ATOM	1178			4 676 4 676	28.495		-9.161	1.00	91.76		C
ATOM ATOM	1179 1180		PRO F	676	28.940	55.365			92.62 91.42		N
ATOM	1181		LYS F	a 677	28.743				90.59		C
MOTA	1182		LYS A	A 677 A 677	29.550 30.803			1.00	89.47		C
MOTA	1183 1184		LYS A	A 677	31.020	57.863	-7.291		88.66		C
MOTA MOTA	1185		LYS A	A 677	29.720			_	0 88.80 0 88.91		Ċ
ATOM	1186		LYS A	A 677	29.029 27.550				0 88.10		N
ATOM	1187			A 677 A 677	29.942	58.657	-10.527	1.0	0 90.29		C O
ATOM ATOM	1188 1189			A 677	30.165	59.849	-10.322	1.0	0 90.63		Ŋ
ATOM	1190		ASP 2	A 678	30.009		-11.736 -12.920		0 89.62 0 88.89		С
ATOM	1191			A 678	30.357 31.063		-13.959		0 89.19		C
MOTA	1192			A 678 A 678	32.01	58.778	-14.874	1.0	0 88.51	A	C
MOTA MOTA	1193 1194			A 678	31.553	59.707	-15.579	3 1.0	0 88.03		0
ATOM	1195	5 OD	2 ASP	A 678	33.21		-14.889 -13.49		0 87.03 0 87.61		C
ATOM	1196			A 678	29.048 28.97		7 -14.66	5 1.0	0 87.58		0
MOTA	1197 1198			A 678 A 679	28.02	5 59.489	-12.648	B 1.0	0 86.16		N C
MOTA MOTA	119		GLY	A 679	26.72	4 59.967	7 -13.07		0 84.02 0 82.62		C
ATOM	120	0 C	GLY	A 679	26.06		9 -14.103 9 -15.139		0 83.22		0
MOTA	120			A 679 A 680	26.66 24.83		7 -13.82	8 1.0	0 80.01		N
ATOM ATOM				A 680	24.10		3 -14.76	0 1.0	0 76.98		С
MION	J. Z. U .	_ J A							•		

						1 00 76 06	С
MOTA	1204	СВ	LEU A 680	22.678	57.548 -14.239	1.00 76.06	C
	1205		LEU A 680	22.495	56.910 -12.855	1.00 74.98	
ATOM	_		LEU A 680	21.079	57.146 -12.341	1.00 73.06	C
ATOM	1206		LEU A 680	22.803	55.424 -12.946	1.00 73.24	С
ATOM	1207	_		24.048	58.523 -16.107	1.00 75.06	С
MOTA	1208		LEU A 680		59.744 -16.167	1.00 74.11	0
MOTA	1209		LEU A 680	24.229	57.779 -17.184	1.00 72.73	N
MOTA	1210		LYS A 681	23.815	57.779 -17.104	1.00 70.21	С
ATOM	1211	CA	LYS A 681	23.715	58.390 -18.505		Č
ATOM	1212	CB	LYS A 681	23.334	57.347 -19.557		č
ATOM	1213	CG	LYS A 681	24.518	56.705 -20.250	1.00 68.29	
		CD	LYS A 681	25.341	55.843 -19.300	1.00 67.55	C
ATOM	1214			26.494	55.160 -20.036	1.00 65.59	С
ATOM	1215	CE		26.039	54.391 -21.236	1.00 61.64	Ñ
ATOM	1216	NZ	LYS A 681	-	59.506 -18.506	1.00 69.59	C
ATOM	1217	C	LYS A 681	22.675	60.493 -19.223	1.00 70.85	0
ATOM	1218	0	LYS A 681	22.813		1.00 68.16	N
ATOM	1219	N	SER A 682	21.639	59.346 -17.688		C
ATOM	1220	CA	SER A 682	20.561	60.325 -17.594	1.00 65.66	Č
MOTA	1221	CB	SER A 682	19.230	59.641 -17.871	1.00 65.37	ŏ
	1222	0G	SER A 682	19.333	58.829 -19.020	1.00 64.33	
ATOM		C	SER A 682	20.514	60.931 -16.203	1.00 64.67	C
ATOM	1223			19.456	60.939 -15.587	1.00 63.62	0
MOTA	1224	0	SER A 682	21.644	61.440 -15.714	1.00 64.38	N
MOTA	1225	N	GLN A 683	21.700	62.018 -14.370	1.00 65.18	С
ATOM	1226	CA	GLN A 683		62.502 -14.061	1.00 64.99	С
ATOM	1227	CB	GLN A 683	23.121		1.00 65.80	С
MOTA	1228	CG	GLN A 683	23.280	63.042 -12.656		C
ATOM	1229	CD	GLN A 683	23.132	61.958 -11.625		ŏ
ATOM	1230	OE1	GLN A 683	22.902	62.226 - 10.448	1.00 66.81	
	1231	NE2	GLN A 683	23.272	60.713 -12.062	1.00 67.81	N
ATOM			GLN A 683	20.697	63.163 -14.203	1.00 65.30	C
MOTA	1232	C		20.204		1.00 64.40	0
MOTA	1233	0	GLN A 683	20.391		1.00 65.93	N
MOTA	1234	N	GLU A 684			1.00 66.98	С
MOTA	1235	CA	GLU A 684	19.441		1.00 68.74	С
ATOM	1236	CB	GLU A 684	19.455		1.00 70.85	Č
ATOM	1237	CG	GLU A 684	20.576			č
ATOM	1238	CD	GLU A 684	20.432	63.745 -18.010	1.00 72.48	ŏ
	1239	OE1		21.393	63.199 -18.589	1.00 72.54	
ATOM		OE2		19.351	63.161 -17.763	1.00 74.49	0
ATOM	1240			18.028		1.00 66.33	С
ATOM	1241	C	GLU A 68	17.307		1.00 65.98	0
ATOM	1242	0	GLU A 68			1.00 64.94	N
ATOM	1243	N	LEU A 68	17.641		1.00 64.26	С
MOTA	1244	CA	LEU A 685	16.330		1.00 64.30	C
ATOM	1245	CB	LEU A 68	16.139			Č
ATOM	1246	CG	LEU A 68	14.937		1.00 64.98	Č
ATOM	1247	CD1			61.277 -18.894	1.00 65.94	
	1248	CD2			61.041 -16.941	1.00 65.67	C
ATOM			LEU A 68			1.00 63.99	C
ATOM	1249	C	LEU A 68	_			0
ATOM	1250	0					N
MOTA	1251	N	PHE A 68				С
ATOM	1252	CA	PHE A 68				С
ATOM	1253	CB	PHE A 68				С
ATOM	1254	CG	PHE A 68				С
ATOM	1255	CD1					
ATOM	1256	CD2	PHE A 68	19.268		1.00 50.53	C C
ATOM	1257	CEI				1.00 52.59	č
	1258	CE2			58.648 -8.630	1.00 50.89	
ATOM		CZ	PHE A 68			1.00 50.63	C
MOTA	1259		PHE A 68			1.00 58.51	C
ATOM	1260	C	PHE A 68				0
ATOM	1261	0					N
MOTA	1262	N	ASP A 68				С
MOTA	1263	CA	ASP A 68				C
MOTA	1264	CB	ASP A 68				C
MOTA	1265	CG	ASP A 68				ō
ATOM	1266	OD1	ASP A 68	20.27			ŏ
ATOM	1267	OD2		21.004			Č
	1268	C	ASP A 68		9 64.401 -9.936		
ATOM			ASP A 68			1.00 59.22	0
ATOM	1269	0	GLU A 68			1.00 60.95	Ŋ
MOTA	1270	N					. с
MOTA	1271	CA					С
MOTA	1272	CB	GLU A 68				С
ATOM.	1273	CG	GLU A 68				С
MOTA	1274	CD	.GLU A 68	14.53			ō
ATOM	1275	OE:	L GLU A 68	3 13.56 ⁴	4 68.034 -11.805		ő
ATOM	1276	OE			2 68.573 -12.741	1.00 71.37	
	1277	C	GLU A 68			1.00 60.13	С
ATOM			GLU A 68			1.00 60.24	0
ATOM	1278	0				1.00 58.49	N
ATOM	1279		ILE A 68				С
MOTA	1280		ILE A 68				С
ATOM	1281		ILE A 6				C
ATOM	1282	CG					С
ATOM	1283	CG	1 ILE A 6				Ċ
ATOM	1284		1 ILE A 6		5 59.526 -13.347	1.00 51.65	•
H+ 012							

										•
λ mom	1285	С	ILE	7	689	12.616	61.826	-B.895	1.00 56.24	С
ATOM						11.724	62.015	-8.068	1.00 57.18	0
ATOM	1286	0	ILE				61.503	-8.552	1.00 55.77	N
MOTA	1287	N	ARG			13.852				С
MOTA	1288	CA	ARG	A	690	14.229	61.327	-7.163	1.00 55.98	
ATOM	1289	CB	ARG			15.744	61.092	-7.088	1.00 55.19	Ç
			ARG			16.270	60.765	-5.700	1.00 53.78	C
ATOM	1290	CG					60.497	-5.714	1.00 54.71	C
ATOM	1291	CD	ARG			17.762	-		— ·	N
ATOM	1292	NE	ARG	A	690	18.275	60.199	-4.383	1.00 56.73	
ATOM	1293	CZ	ARG			18.213	61.046	-3.364	1.00 59.10	C
			ARG			17.654	62.232	-3.539	1.00 60.67	N
ATOM	1294	NH1					60.723	-2.179	1.00 59.68	N
MOTA	1295	NH2	ARG			18.723				C
ATOM	1296	С	ARG	Α	690	13.807	62.520	-6.291		
ATOM	1297	0	ARG	A	690	13.586	62.401	-5.078	1.00 55.49	0
		N	MET			13.669	63.674	-6.920	1.00 56.47	N
ATOM	1298					13.278	64.853	-6.179	1.00 56.58	С
MOTA	1299	CA	MET						1.00 58.08	C
ATOM	1300	CB	MET	Α	691	13.867	66.097	-6.837		Ċ
ATOM	1301	CG	MET	A	691	14.002	67.243	-5.868	1.00 59.90	
ATOM	1302	SD	MET			15.154	66.810	-4.521	1.00 64.41	S
			MET			16.679	67.847	-5.016	1.00 62.85	С
MOTA	1303	CE					64.981	~6.057	1.00 55.63	С
MOTA	1304	C	MET			11.760				0
ATOM	1305	0	MET	Α	691	11.274	65.563	-5.089	1.00 55.51	
ATOM	1306	N	THR			11.021	64.433	-7.027	1.00 53.64	N
		CA	THR			9.557	64.486	-7.014	1.00 50.89	С
ATOM	1307					8.963	64.075	-8.335	1.00 48.15	С
MOTA	1308	CB	THR					-8.437	1.00 48.29	0
ATOM	1309	OG1	THR			9.016	62.659			Ċ
MOTA	1310	CG2	THR	A	692	9.738	64.698	-9.476	1.00 49.27	
ATOM	1311	C	THR			9.032	63.534	-5.952	1.00 50.65	С
			THR			7.941	63.717	-5.418	1.00 51.86	0
MOTA	1312	0					62.519	-5.635	1.00 49.19	N
MOTA	1313	N	TYR			9.824				C
MOTA	1314	CA	TYR	A	693	9.451	61.563	-4.604	1.00 48.00	
ATOM	1315	CB	TYR	Α	693	9.975	60.195	-4.984	1.00 47.56	C
	1316	CG	TYR			9.154	59.561	-6.059	1.00 46.93	С
ATOM						7.934	58.977	-5.754	1.00 46.58	С
MOTA	1317	CD1	TYR					-6.716	1.00 47.57	С
ATOM	1318	CE1	TYR	A	693	7.189	58.356			Č
MOTA	1319	CD2	TYR	A	693	9.605	59.519	-7.370	1.00 45.04	
ATOM	1320	CE2	TYR			8.868	58.902	-8.346	1.00 48.18	С
			TYR			7.656	58.319	-8.010	1.00 48.56	С
ATOM	1321	CZ					57.692	-8.971	1.00 50.12	0
ATOM	1322	OH	TYR			6.908				Ċ
MOTA	1323	C	TYR	A	693	9.946	61.963	-3.195	1.00 47.46	
ATOM	1324	0	TYR	Α	693	9.499	61.408	-2.192	1.00 45.56	0
	1325	N			694	10.867	62.918	-3.119	1.00 47.93	Ŋ
ATOM						11.363	63.388	-1.827	1.00 48.41	С
ATOM	1326	CA	ILE					-1.996	1.00 49.22	C
ATOM	1327	CB	ILE			12.669	64.221			Č
ATOM	1328	CG2	ILE	A	694	12.943	65.039	-0.755	1.00 46.70	
	1329	CG1	ILE			13.854	63.295	-2.292	1.00 51.18	С
MOTA			ILE			15.144	64.028	-2.654	1.00 52.54	C
ATOM	1330	CD1						-1.243	1.00 48.94	C
ATOM	1331	С			694	10.260	64.279			Ō
MOTA	1332	0	ILE	A	694	9.903	64.184	-0.058	1.00 46.19	
ATOM	1333	N	LYS	A	695	9.724	65.139	-2.109	1.00 50.82	N
	1334	CA	LYS			8.650	66.060	-1.740	1.00 51.70	C
ATOM						8.447	67.135	-2.823	1.00 51.36	С
ATOM	1335	CB	LYS					-3.076	1.00 49.93	С
MOTA	1336	CG			695	9.699	67.970			č
ATOM	1337	CD	LYS	A	695	9.392	69.275	-3.780	1.00 49.97	
ATOM	1338	CE	LYS			8.907	69.046	-5.198	1.00 51.92	С
			LYS			9.983	68.588	-6.125	1.00 53.71	N
ATOM	1339	NZ					65.263	-1.549	1.00 51.57	С
ATOM	1340	С			695	7.377				0
MOTA	1341	0			695	6.482	65.663	-0.803	1.00 52.87	N
ATOM	1342	N	GLU	A	696	7.309	64.122	-2.225	1.00 51.46	
ATOM	1343	CA			696	6.164	63.236	-2.104	1.00 49.69	С
					696	6.256	62.127	-3.150	1.00 51.52	С
ATOM	1344	CB					61.212	-3.173	1.00 53.14	С
MOTA	1345	CG			696	5.067				C
ATOM	1346	CD	GLU	A	696	3.781	61.973	-3.209	1.00 54.98	
ATOM	1347	OE1	GLU			3.561	62.754	-4.179	1.00 55.80	0
	1348	OE2			696	3.008	61.773	-2.247	1.00 53.05	0
ATOM						6.184	62.646	-0.691	1.00 48.68	C
MOTA	1349	С			696					0
MOTA	1350	0			696	5.192	62.701	0.040	1.00 48.67	
ATOM	1351	N	LEU	A	697	7.318	62.082	-0.300	1.00 48.19	И
•	1352	CA			697	7.440	61.513	1.029	1.00 48.23	C
ATOM						8.864	61.017	1.259	1.00 48.87	С
ATOM	1353	CB			697			· 2.692	1.00 50.48	С
MOTA	1354	CĞ			697	9.226	60.599			.c
ATOM	1355	ĆĎ1	LEU	A	697	8.369	59.395	3.153	1.00 50.25	
	1356	CD2			697	10.717	60.266	2.736	1.00 48.69	C
ATOM					697	7.096	62.585	2.049	1.00 49.19	С
MOTA	1357	C				6.512	62.294	3.091	1.00 50.68	0
MOTA	1358	0			697				1.00 30.36	N
ATOM	1359	N	GLY	A	698	7.465	63.826	1.744		
ATOM	1360	CA			698	7.175	64.927	2.642	1.00 48.45	C
		Ç			698	5.687	65.056	2.868	1.00 48.50	С
ATOM	1361					5.240	65.185	4.009	1.00 47.91	0
MOTA	1362	0			698					N
ATOM	1363	N			699	4.924	65.017	1.774	1.00 48.62	C
ATOM	1364	CA			699	3.461	65.119	1.818	1.00 48.03	
		CB			699	2.886	65.087	0.397	1.00 47.98	С
ATOM	1365	CB	TITO	4.1			, , , , , ,			

ATOM	1366	ÇG	LYS A	699	3.326	66.265	-0.455	1.00 47.61	C
ATOM	1367		LYS A		2.929	66.091	-1.910	1.00 48.03	č
MOTA	1368		LYS A		3.513	67.211 67.074	-2.761 -4.218	1.00 47.82	N
ATOM	1369	NZ	LYS A		3.239 2.899	63.970	2.628	1.00 47.65	С
ATOM	1370 1371	C 0	LYS A LYS A		2.001	64.154	3.450	1.00 47.13	0
MOTA MOTA	1372	N	ALA A		3.440	62.780	2.394	1.00 48.78	И
ATOM	1373	CA	ALA A		2.993	61.594	3.110	1.00 50.51	C
ATOM	1374	CB	ALA A	700	3.795	60.382	2.64B	1.00 49.37 1.00 50.96	C
MOTA	1375	C	ALA A		3.143	61.816	4.621 5.403	1.00 49.68	Ö
MOTA	1376	0	ALA A		2.297 4.214	61.383 62.508	5.011	1.00 52.22	N
ATOM	1377	N CA	ILE A		4.478	62.812	6.413	1.00 54.71	С
MOTA MOTA	1378 1379	CB	ILE A		5.918	63.268	6.614	1.00 53.74	C
MOTA	1380	CG2	ILE A		6.127	63.704	8.064	1.00 53.26	C
MOTA	1381		ILE A		6.860	62.127	6.225	1.00 53.43 1.00 51.85	c
MOTA	1382		ILE A		8.307 3.532	62.516 63.888	6.156 6.956	1.00 58.00	c
ATOM	1383	C	ILE A		3.000	63.760	B.060	1.00 58.18	0
ATOM ATOM	1384 1385	N N	VAL A		3.318	64.950	6.190	1.00 59.77	Ŋ
MOTA	1386	CA	VAL A		2.409	65.993	6.637	1.00 62.49	C
ATOM	1387	CB	VAL A		2.303	67.117	5.596	1.00 62.95 1.00 62.68	c
ATOM	1388	CG1	VAL A		1.185	68.080 67.838	5.977 5.490	1.00 62.55	Č
ATOM	1389	CG2	VAL A		3.640 1.031	65.367	6.845	1.00 64.26	С
ATOM ATOM	1390 1391	C O	VAL A		0.415	65.483	7.911	1.00 65.10	0
MOTA	1392	N	LYS A		0.566	64.676	5.816	1.00 65.02	N
ATOM	1393	CA	LYS A	703	-0.732	64.023	5.846	1.00 66.60	C
ATOM	1394	CB	LYS A		-0.866	63.140	4.591 4.392	1.00 66.24 1.00 65.19	č
MOTA	1395	CG	LYS A		-2.235 -2.404	62.514 61.925	2.998	1.00 64.37	C
ATOM	1396 1397	CD	LYS A		-3.769	61.267	2.833	1.00 65.69	С
atom atom	1398	NZ	LYS A		-3.943	60.617	1.497	1.00 65.23	N C
ATOM	1399	C	LYS A	703	-1.029		7.120	1.00 67.04 1.00 67.09	o
MOTA	1400	0	LYS A		-2.179	63.063 62.715	7:496 7.790	1.00 68.03	N
MOTA	1401	N	ARG A		0.008 -0.151	61.914	9.002	1.00 68.16	С
ATOM ATOM	1402 1403	CA CB	ARG A		0.775	60.702	8.911	1.00 67.95	C
ATOM	1404	CG	ARG A		0.950		10.175	1.00 69.89	C
ATOM	1405	CD	ARG A	704	1.756		9.823	1.00 71.05 1.00 73.08	N
MOTA	1406	NE	ARG A		2.022	57.767 58.029	10.949 11.942	1.00 74.45	c
ATOM	1407	CZ	ARG A		2.870 3.548	59.172	11.968	1.00 75.00	N
MOTA MOTA	1408 1409	NH1	ARG A		3.061	57.126	12.900	1.00 73.60	N
MOTA	1410	C	ARG A		0.108		10.282	1.00 68.04	C 0
ATOM	1411	0	ARG A	704	-0.852		11.060 10.486	1.00 67.92 1.00 66.54	0
ATOM	1412	OXT	ARG A		1.239 2.242		10.265	1.00 54.81	Č
ATOM	1413	CB OG	SER A		1.167		11.160	1.00 53.87	0
MOTA MOTA	1414 1415	C	SER A		2.969		11.905	1.00 57.67	C
ATOM	1416	Ö	SER A		2.016		12.693	1.00 57.88	O N
MOTA	1417	N	SER A		1.758		9.773 10.411	1.00 54.28 1.00 55.76	Č
ATOM	1418	CA	SER A		2.732 4.240		12.280	1.00 57.69	N
ATOM	1419	N CA	SER A		4.636		13.665	1.00 56.36	С
MOTA MOTA	1420 1421	CB	SER A		3.710		14.260	1.00 56.43	C
ATOM	1422	OG	SER A		3.423		13.284	1.00 56.34	o C
MOTA	1423	C		709	6.094		13.712 13.526	1.00 57.90 1.00 57.65	Õ
MOTA	1424	0		4 709 710	7.030		13.964	1.00 57.90	N
MOTA	1425 1426	N CA		A 710 A 710	6.271 7.587		14.017	1.00 56.52	С
ATOM ATOM	1427	CB	GLN A		7.670		15.326	1.00 56.97	C
ATOM	1428	CG		A 710	7.116		16.512	1.00 58.60	C +C
MOTA	1429	CD		A 710	7.171		17.846	1.00 58.92 1.00 60.13	Ö
MOTA	1430	OE1		A 710	6.757		17.941 18.882	1.00 58.49	N
ATOM	1431	NE2		A 710 A 710	7.680 7.704		12.755	1.00 56.55	С
ATOM ATOM	1432 1433	C O		A 710	8.012		12.793	1.00 55.45	0
ATOM	1434	N		A 711	7.486	68.025	11.610	1.00 55.17	N C
ATOM	1435	CA	ASN A	A 711	7.531		10.362	1.00 56.02 1:00 55.32	0
MOTA	1436			A 711	6.725		9.279 9.658	1.00 55.98	Č
ATOM	1437	CG OD1	ASN A	A 711	5.251 4.485		8.843	1.00 55.62	0
ATOM	143B 1439	לטמ זמט	ASN A	A 711	4.856		10.878	1.00 57.73	Ŋ
MOTA MOTA	1440	C	ASN I	A 711	8.932	67.009	9.838	1.00 56.20	C
MOTA	1441	0	ASN A	A 711	9.129		9.106		o N
MOTA	1442	N		A 712	9.915		10.201 9.691	1.00 60.60	c
MOTA	1443	CA CB		A 712 A 712	11.244 12.075		9.529	1.00 62.52	С
MOTA MOTA	1444 1445	CG		A 712	11.356	70.065	9.008	1.00 62.95	. C
MOTA	1446		TRP		11.331		7.651	1.00 63.40	С

											•
ATOM	1447		TRP A			71.825	7.687	1.00 (C
ATOM	1448		TRP A		11.807	70.098 71.006	6.421 9.771	1.00			C
ATOM	1449		TRP A ' TRP A '		10.720 10.319	72.060	8.988	1.00	64.55		N
ATOM ATOM	1450 1451		TRP A		10.485	72.612	6.551		64.85.		C
ATOM	1452	CZ3	TRP A	712	11.614	70.896	5.274		66.25 66.85		c
ATOM	1453		TRP A		10.956	72.134 66.547	5.355 10.540		60.24		С
MOTA	1454		TRP A		12.016 13.075	66.104	10.127	1.00			0
ATOM ATOM	1455 1456		GLN A		11.522	66.204	11.727	1.00			N C
ATOM	1457	CA	GLN A	713	12.228	65.215	12.543 14.004	1.00	57.51		č
MOTA	1458		GLN A		11.768 12.558	65.253 64.312	14.916	1.00	57.90		С
MOTA	1459 1460		GLN A GLN A		11.956	64.181	16.301	1.00	58.04		C
ATOM ATOM	1461		GLN A		10.867	63.632	16.469	1.00			O N
ATOM	1462		GLN A		12.659	64.690 63.834	17.300 11.974	1.00			C
ATOM	1463		GLN A		11.922 12.800	62.979	11.873	1.00	55.54		0
MOTA MOTA	1464 1465		ARG A		10.651	63.630	11.630	1.00			N C
ATOM	1466	CA	ARG A	714	10.177	62.373	11.056 10.937	1.00 1.00			č
MOTA	1467		ARG A		8.644 8.080	62.373 61.063	10.409	1.00	55.69		С
ATOM	1468 1469		ARG A		6.592	60.911	10.698	1.00	57.46		C N
ATOM ATOM	1470		ARG A		6.116	59.568	10.366		55.54 53.99		C
ATOM	1471		ARG A		6.494 7.348	58.464 58.534	10.999 12.011		50.95		N
ATOM	1472 1473		ARG A		6.037	57.287	10.601	1.00	54.37		N
ATOM ATOM	1474		ARG A		10.801	62.214	9.674		53.10 51.84		C
ATOM	1475	0	ARG A		11.170	61.112 63.329	9.262 8.961		53.44		N
ATOM	1476	N	PHE A		10.921 11.519	63.318	7.631	1.00	54.01		C
ATOM ATOM	1477 1478	CA CB	PHE A		11.390	64.691	6.978		53.70		C C
ATOM	1479	CG	PHE A	715	11.769	64.707	5.528 4.548	1.00	55.03 55.85		č
MOTA	1480	CD1	PHE A		10.845 13.055	64.357 65.074	5.138	1.00	55.63		C
ATOM ATOM	1481 1482		PHE A		11.197	64.376	3.198		56.00		C
ATOM	1483	CE2	PHE A	715	13.422	65.098	3.793 2.821		55.68 56.77		C
MOTA	1484	CZ	PHE A		12.492 12.991	64.750 62.969	7.820	1.00	53.98		С
MOTA	1485 1486	C O	PHE A		13.648	62.446	6.919	1.00	54.78		N N
ATOM ATOM	1487	N	TYR A	716	13.498	63.257	9.012 9.339	1.00	53.49 52.82		C
MOTA	1488	CA	TYR A		14.877 15.394	62.965 63.982	10.363	1.00	54.19		C
MOTA	1489 1490	CB CG	TYR A		16.811	63.747	10.828	1.00	55.32		C
ATOM ATOM	1491	CD1	TYR A	716	17.067	63.128	12.052	1.00	55.83 58.40		Ç
ATOM	1492	CE1	TYR A		18.368 17.892	62.896 64.129	12.485 10.038		55.59		C
MOTA	1493 1494	CD2 CE2			19.198	63.903	10.451	1.00	58.23		C
ATOM ATOM	1495	CZ	TYR A	716	19.431	63.281	11.678	1.00	60.41 62.23		o
MOTA	1496	OH	TYR A		20.728 15.012	63.036 61.536	12.095 9.871	1.00	52.31		C
ATOM	1497 1498	C	TYR A	716	16.039	60.892	9.685	1.00	53.87		0
atom Atom	1499	N	GLN A	717	13.973	61.028	10.517		50.59 49.14		N C
ATOM	1500	CA	GLN A	717	14.011 12.913	59.678 59.502	11.040 12.076	1.00	48.02		C
ATOM	1501 1502	CB CG	GLN A	717	13.187	60.266	13.350	1.00	47.75		C
ATOM ATOM	1502	CD	GLN A	717	12.083	60.098	14.374		47.28 44.02		C
ATOM	1504	OE1	GLN A	717	10.922 12.441	60.408 59.606	14.108 15.558	1.00	47.28		N
ATOM	1505	NE2 C	GLN A	717	13.820	58.662	9.929	1.00	49.07		C
ATOM ATOM	1506 1507		GLN A	717	14.381	57.559			50.47		O N
ATOM	1508	N	LEU A	718	13.029	59.038 58.133	8.936 7.840		47.86 46.90		C
MOTA	1509	CA	LEU A	718	12.749 11.485	58.586		1.00	44.55		C
atom atom	1510 1511	CB CG	LEU A	718	10.155	58.700	7.861	1.00	42.65		C
ATOM	1512		LEU A	718	9.009			1.00	41.64 37.93		c
ATOM	1513		LEU A	1 718 1 719	9.953 13.937	57.546 58.005			46.55		C
MOTA	1514 1515	C O	LEU A	718	14.260	56.903	6.458	1.00	45.46		0
ATOM ATOM	1515		THR A	719	14.584	59.137		ຸ.1.00 ໜ້າ ກາ	47.26	٠.	N
ATOM	/1517	CA	THR A	1 719	15.757 16.224			1.00	46.78		С
ATOM	1518 1519		THR A	A 719	15.224	61.401	5.087	1.00	49.22		0
ATOM ATOM	1520		THR A	a 719	17.376	60.670	4.630		46.92 46.61		C
ATOM	1521	C	THR A	A 719	16.878		6.383 5.678		47.44		0
MOTA	1522		THR A	A 719 A 720	17.680 16.916			1.00	45.91		N
ATOM ATOM	1523 1524		LYS A	A 720	17.920	57.637	8.434) 46.06) 47.69		C
ATOM	1525	CB	LYS 2	A 720	17.869) 47.69) 49.40		C
ATOM	1526		TAR 1	A 720 A 720	19.064 19.007				53.02		C
MOTA	1527	CD	TIO 1		23.00						

ATOM	1528	CE	LYS A	720	20.272	57.773	12.951	1.00		C N
ATOM	1529	NZ	LYS A	720	20.138	58.236	14.374 8.244	1.00		C
ATOM	1530	•	LYS A		17.692 18.623	56.132 55.401	7.917	1.00		0
ATOM	1531	•	LYS A LEU A		16.461	55.666	8.439	1.00	44.81	N
MOTA MOTA	1532 1533		LEU A		16.149	54.249	8.249	1.00		C
MOTA	1534	CB	LEU A	721	14.651	54.005	8.469		44.36 43.99	c
ATOM	1535		LEU A		14.068	52.669 51.534	7.978 8.662		42.83	Č
MOTA	1536	_	LEU A		14.803 12.565	52.597	8.263		45.48	С
ATOM	1537 1538		TEO Y		16.538	53.816	6.831		42.20	C
ATOM ATOM	1539		LEU A		17.096	52.739	6.617		41.31	O N
ATOM	1540			722	16.230	54.661 54.351	5.858 4.482		42.11 43.13	Ċ
MOTA	1541		LEU A		16.563 16.072	55.457	3.548		42.12	С
MOTA	1542 1543		LEU A		14.582	55.422	3.186	1.00	42.58	C
ATOM ATOM	1544		LEU A		14.212	56.630	2.337	1.00	43.09 43.11	C
ATOM	1545			722	14.271	54.146 54.172	2.418 4.349		44.38	Č
MOTA	1546	C	LEU A	722	18.066 18.536	53.318	3.588	1.00	44.59	0
ATOM ATOM	1547 1548	N O	ASP A		18.823	54.980	5.090		45.37	N C
MOTA	1549	CA	ASP A	723	20.277	54.878	5.050	1.00	46.24 47.55	C
ATOM	1550	CB	ASP A		20.947	56.097 57.342	5.693 4.857		50.95	C
ATOM	1551	CG	ASP A		20.793 20.921	57.239	3.618	1.00	53.46	0
ATOM ATOM	1552 1553	OD1 OD2	ASP A		20.545	58.426	5.432		53.76	OC
ATOM	1554	C	ASP F		20.764	53.606	5.722		44.58 45.82	Ö
ATOM	1555	0	ASP F		21.742	53.015 53.175	5.278 6.783		43.57	N
ATOM	1556	N		A 724	20.088 20.496	51.952	7.465	1.00	44.04	C
ATOM ATOM	1557 1558	CA CB	SER A	A 724	19.844	51.848	8.843		42.14	c o
ATOM	1559	QG	SER A	A 724	18.583	51.201	8.784		38.58 46.12	c
MOTA	1560	С		A 724	20.116 20.442	50.731 49.600	6.635 6.992		47.63	Ō
MOTA	1561	O N		A 724 A 725	19.418	50.962	5.530	1.00	47.03	N
ATOM ATOM	1562 1563	CA		A 725	18.998	49.869	4.669		48.24	C C
ATOM	1564	CB	MET 2	A 725	17.916	50.354	3.688 4.305		49.32 48.80	Č
ATOM	1565	CG		A 725	16.511 15.865	50.560 49.039	5.080		46.86	S
ATOM	1566 1567	SD CE		A 725 A 725	15.626	48.008	3.622	1.00	45.55	C
ATOM ATOM	1568	CE		A 725	20.193	49.328	3.898		48.98	c o
ATOM	1569	0		A 725	20.292	48.124	3.639 3.526		48.67 51.41	Ŋ
ATOM	1570	N		A 726	21.101 22.299	50.228 49.854	2.766		52.22	C
ATOM	1571 1572	CA CB		A 726 A 726	23.171	51.099	2.507		52.32	C
ATOM ATOM	1573	CG	HIS 2	A 726	24.288	50.860	1.538		55.97 57.37	C
MOTA	1574	CD2		A 726	25.639	50.851 50.514	1.709 0.219		55.61	N
MOTA	1575	ND1 CE1		A 726 A 726	24.079 25.231	50.297	-0.375	1.00	55.50	C
ATOM ATOM	1576 1577	NE2		A 726	26.200	50.495	0.510	1.00	56.75	И С
ATOM	1578	C	HIS	A 726	23.071	48.811	3.562 3.018	1.00	52.63 51.56	Ö
ATOM	1579	0	HIS	A 726	23.630 23.072	47.844 49.000	4.871	1.00	52.29	N
ATOM	1580 1581	N CA		A 727 A 727	23.773	48.078	5.730	1.00	51.66	C
ATOM ATOM	1582	CB	GLU		23.803	48.595	7.174	1.00	56.48	C
ATOM	1583	CG	GLU	A 727	24.495	49.953	7.374 8.834		61.39 64.73	Č
MOTA	1584	CD		A 727 A 727	24.495 24.950	50.430 49.661	9.721	1.00	65.56	0
MOTA	1585 1586	OE1 OE2	GTO	A 727	24.045		9.088	1.00	65.33	0
MOTA MOTA	1587	C	GLU	A 727	23.134		5.714	1.00	49.32	C 0
MOTA	1588	0	GLU	A 727	23.846	45.708 46.662	5.697 5.716	1.00	45.57	N
ATOM	1589	N		A 728 A 728	21.801 21.061	45.397		1.00	41.94	C
ATOM ATOM	1590 1591	CA CB		A 728	19.532		5.977		41.73	C
ATOM	1592	ÇG1	VAL	A 728	18.806			1.00	39.22	C
ATOM	1593	CG2	VAL	A 728	19.280				39.82	C
MOTA	1594	C	VAL	A 728 A 728	21.223 21.405			1.00	36.74	0
ATOM	1595 1596	O N		A 729	21.171	45.306	3.343		39.09	C
ATOM ATOM	1597		VAL	A 729	21.269	44.677		1.00	41.55	· C
	1598	CB	VAL	A 729	21.145			1.00	40.06	c
ATOM	1599	CG1		A 729 A 729	21.266 19.819			1.00	42.70	С
ATOM	1600		UAU ;	A 729	22.536		1.857	1.00	41.95	C
ATOM ATOM	1601 1602		VAL	A 729	22.520	42.865	1.205		42.16	О И
ATOM	1603		GLU	A 730	23.632				45.51 47.31	C
ATOM	1604	CA		A 730	24.912 25.942			1.00	53.58	С
ATOM	1605		G1:11	A 730 A 730	27.162		2.359	1.00	61.47	
MOTA MOTA	1606 1607		GLŪ	A 730	26.983	46.313	1.744		66.80	
MOTA	1608			A 730	27.929	46.807	1.083	1.00	69.06	•

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•	1609 OE2 GLU A 730	25.887 46.905 1.918 1.00 70.77	O C
ATOM		24.782 42.291 2.891 1.00 46.35	Õ
ATOM	1610 C GLU A 730 1611 O GLU A 730	25.100 41.301 4 142 1 00 44 97	N
ATOM	1612 N ASN A 731	24.33/ 42.20	C
ATOM ATOM	1613 CA ASN A 731	24.177 20.301 1 00 46 72	С
ATOM	1614 CB ASN A 731	23.550 41.65. 7 420 1 00 50 57	C
ATOM	1615 CG ASN A 731	24.501 41.831 7.649 1.00 50.63	0
ATOM	1616 OD1 ASN A 731	23.436 41.300 7.351 1.00 53.89	N
ATOM	1617 ND2 ASN A 731	24.170 30.002 3.975 1.00 42.55	C
MOTA	1618 C ASN A 731	33 662 1.00 42.11	O N
ATOM	1619 O ASN A 731	22 101 40.486 3.625 1.00 39.79	C
ATOM	1620 N LEU A 732 1621 CA LEU A 732	21,158 39.685 2.885 1.00 37.79	Č
ATOM		19.838 40.447 2.697 1.00 37.03	c
ATOM	1622 CB LEU A 732 1623 CG LEU A 732	19.213 40.986 3.983 1.00 38.67	C
ATOM	1624 CD1 LEU A 732	17.000 1.00 1.00 37.82	С
MOTA MOTA	1625 CD2 LEU A 732	19.020 33.003 3 20 36 29	C
ATOM	1626 C LEU A 732	21.707 33.44 1 00 34 44	0
ATOM	1627 O LEU A 732	22 425 40 221 0.874 1.00 36.22	N
ATOM	1628 N LEU A 733	22.335 39.908 -0.410 1.00 39.47	C C
MOTA	1629 CA LEU A 733	23.721 41 147 -1.007 1.00 39.24	Č
ATOM	1630 CB LEU A 733 1631 CG LEU A 733	22.836 42.072 -1.855 1.00 40.47	Č
ATOM	723	23.654 43.267 -2.344 1.00 35.04	č
ATOM	1632 CD1 LEU A 733 1633 CD2 LEU A 733	22.262 41.289 -3.051 1.00 37.22 24.109 38.816 -0.232 1.00 41.64	С
MOTA	1634 C LEU A 733	24.109 30.020	0
ATOM ATOM	1635 O LEU A 733	24.293 37.333 2 202 1 00 44 37	N
ATOM	1636 N ASN A 734	24.793 30.00	C
ATOM	1637 CA ASN A 734	25.707 38 263 2.547 1.00 48.49	C
ATOM	1638 CB ASN A 734	27 817 37 841 2.614 1.00 51.1/	C
MOTA	1639 CG ASN A 734	28.635 38.327 1.836 1.00 52.42	Ŋ
ATOM	1640 OD1 ASN A 734 1641 ND2 ASN A 734	28.131 36.906 3.515 1.00 49.90	. C
ATOM		25.179 36.483 1.296 1.00 47.74	0
MOTA	1642 C ASN A 734 1643 O ASN A 734	25.604 55.504 5 1 00 48 96	N
MOTA MOTA	1644 N TYR A 735	24.193 30.223 2 202 1 00 50 51	С
ATOM	1645 CA TYR A 735	23.330 34.33	C
ATOM	1646 CB TYR A 735	22.518 35.148 4.795 1.00 59.39	C
ATOM	1647 CG TYR A 735	23.110 36.395 5.426 1.00 60.93	C
MOTA	1648 CD1 TYR A 735	22 692 36 562 6.695 1.00 63.01	C
MOTA	1649 CE1 TYR A 735 1650 CD2 TYR A 735	23.688 34.067 5.466 1.00 59.76	č
MOTA	1650 CD2 TYR A 735 1651 CE2 TYR A 735	24.252 34.221 6.734 1.00 62.30	C
MOTA	MVD 7 725	24.245	0
MOTA MOTA	1653 OH TYR A 735	24.803 33.000 1 201 1 00 49 06	С
MOTA	1654 C TYR A 735	22.876 33.356 0.714 1.00 49.78	0
ATOM	1655 O TYR A 735	22.756 35.528 0.219 1.00 47.99	И
ATOM	1656 N CYS A 736 1657 CA CYS A 736	21 757 35 257 -1.033 1.00 4/.4/	C
MOTA	an ave 7 736	21.312 36.577 -1.677 1.00 47.94	S
MOTA	100 00 DVC 7 736	20.120 36.442 -3.045 1.00 47.82	C
MOTA	1000 D CVE A 736	22.662 34.402 1.00 46 37	0
MOTA MOTA	1661 O CYS A 736	22.346 33.33	N
ATOM	1662 N PHE A 737	23.797 33.079 -3.241 1.00 54.51	C
ATOM	1663 CA PHE A /3/	25.550 35.500 -3.966 1.00 54.20	C
ATOM		24.754 36.351 -4.906 1.00 54.06	C
ATOM	- ccc opi pur A 737	23.808 37.241 -4.419 1.00 53.01	c
ATOM	1000 CD2 DUF A 737	24.939 36.261 -6.282 1.00 55.32	Č
ATOM	# # # A A A A A A A A A A A A A A A A A	23.037 30.021 7 155 1 00 55 36	С
ATOM ATOM	1669 CE2 PHE A 737	24.103 37.010	C
ATOM	1670 CZ PHE A 737	23.245 37.351 2 602 1 00 57 70	C
ATON	4 1671 C PHE A 737	25.003 33.266 -3.006 1.00 58.32	0
ATON	4 1672 O PHE A /3/	25 155 32 688 -1.605 1.00 61.37	И
ATON		25 930 31.653 -0.943 1.00 62.56	C
ATO	T CTN A 738	26.262 32.089 0.479 1.00 65.71	Č
ATO		27.277 33.226 0.461 1.00 67.33	Č
ATOI ATOI	1677 CD GLN A 738	27.839 33.33	C
ATO	1678 OEL GLN A 738	28.814 34.300 1 00 65 52	N
'ATO	M 1679 NE2 GLN A 738	27.226 33.02 -0.990 1.00 63.01	(
ATO	M 1680 C GLN A 730	24 070 30.148 -0.590 1.00 65.07	1
ATO		25.969 29.310 -1.506 1.00 60.66	ſ
ATO	1000 GT MUD A 739	25.556 27.912 -1.727 1.00 58.50	(
ATO	10 mup 1 739	26.807 26.980 -1.703 1.00 59.54	(
ATO ATO	M 1685 OG1 THR A 739	27.860 27.000	(
OTA OTA	1686 CG2 THR A 739	20.4// 23.02 1 00 57 46	(
ATO	1687 C THR A 739	24.445 27.200 -1.082 1.00 59.25	•
ATO	M 1688 O THR A 739	23.269 27.580 -1.082 1.00 39.23 24.784 26.358 0.040 1.00 58.26]
ATO	M 1689 N PHE A 740	# * · · · · - · ·	

		C 3	PHE A	740	23.717	25.691	0.824	1.00	58.84	C
ATOM	1690	_	PHE A		24.275	24.753	1.916	1.00		C
ATOM	1691		PHE A		23.766	23.309	1.820	1.00		C
ATOM	1692 1693		PHE A		23.655	22.501	2.964	1.00		C
MOTA	1694		PHE A		23.552	22.717	0.570	1.00		C
ATOM	1695		PHE A		23.334	21.124	2.869	1.00		C
ATOM	1696		PHE A		23.232	21.348	0.459	1.00		C
atom atom	1697		PHE A		23.138	20.545	1.609	1.00		C
ATOM	1698		PHE A		22.747	26.650	1.485	1.00		0
ATOM	1699		PHE A		23.100	27.854	1.600	1.00		0
MOTA	1700		PHE A		21.659	26.155	1.883	1.00		Č
ATOM	1701	CB	THR B	531	53.535	31.623	-7.794	1.00	52.39 57.33	Ö
ATOM	1702	OG1	THR B	531	54.498	30.619	-7.453		53.06	Č
ATOM	1703	CG2	THR B	531	53.862	32.162	-9.155 6.617		52.46	C
ATOM	1704	C	THR B		52.144	33.260	-6.617 -5.605		53.49	0
ATOM	1705	0	THR B		51.499	33.024 32.319	-5.436		50.22	N
ATOM	1706	N	THR B		54.114	32.760	-6.760	1.00	52.09	С
ATOM	1707	CA	THR B	531	53.565 51.642	33.932	-7.642	1.00	52.61	N
MOTA	1708	N	LEU B		50.297	34.468	-7.568	1.00	51.96	С
MOTA	1709	CA	LEU B	532 532	50.344	35.966	-7.867		50.92	С
MOTA	1710	CB	LEU B		49.166	36.830	-7.427		50.86	C
MOTA	1711	CG CD1	LEU B		48.523	36.249	-6.170		50.84	C
ATOM	1712		LEU B		49.654	38.263	-7.217		49.30	C
ATOM	1713 1714	CDZ	LEU B		49.371	33.716	-8.522		52.00	C
ATOM	1715	Ö		532	48.202	33.468	-8.208		54.17	N N
MOTA	1716	N	VAL B		49.905	33.323	-9.674		49.07	C
ATOM ATOM	1717	CA	VAL B		49.118	32.572	-10.644		46.19	C
ATOM	1718	СВ	VAL B		49.864	32.379	-11.973		44.35 39.97	C
ATOM	1719	CG1	VAL B	533	48.904	32.609	-13.119		45.04	č
ATOM	1720	CG2	VAL B	533	51.059		-12.053		46.02	Č
ATOM	1721	C	VAL B		48.836		-10.058 -10.386		45.65	0
ATOM	1722	0	VAL B		47.838		-9.194		45.79	N
MOTA	1723	N	SER B		49.735	30.739 29.456	-8.519		45.42	С
ATOM	1724	CA	SER B		49.612	29.257			48.31	С
ATOM	1725	CB	SER B		50.850 51.046	30.367	-6.752		49.46	0
MOTA	1726	OG	SER B		48.317	29.438	-7.670		44.05	С
MOTA	1727	C	SER B		47.469	28.549	-7.793		42.13	0
MOTA	1728	0	SER B		48.170		-6.818		43.24	N
MOTA	1729	N	LEO B		47.000		-5.966		42.58	С
ATOM	1730	CA CB	LEU B		47.201	31.699	-4.991		42.81	C
ATOM	1731 1732	CG	LEU B		46.191	31.831	-3.866		43.93	C
atom atom	1732		LEU B		46.937	32.422	-2.683		43.21	C
ATOM	1734	CD2	LEU B	535	44.990	32.694	-4.298		43.23	C
ATOM	1735	C	LEU B	535	45.739	30.775	-6.808		42.64	Õ
ATOM	1736	Ö	LEU B		44.624	30.486			42.26 40.12	N
ATOM	1737	N	LEU B		45.928	31.285	-8.021		38.89	Ċ
ATOM	1738	CA	LEU B		44.840		-8.952		37.55	Č
ATOM	1739	CB	TEA B		45.269		-10.092 -9.739		36.50	С
MOTA	1740	CG	LEO B		45.436		-11.043		34.87	C
ATOM	1741	CD1			45.524	34.410			33.97	С
MOTA	1742		LEU E	536	44.276		_		40.21	С
ATOM	1743	C	LEU E		44.361 43.164				42.19	0
MOTA	1744	0	LEU E		45.290				40.76	N
ATOM	1745	N	GLU E		44.935		-10.363		42.21	С
ATOM	1746 1747	CA CB	GLU E		46.191	27.193	-10.792		46.50	C
ATOM	1748	CG	GLU F		46.715	27.620	-12.142		52.78	C
ATOM ATOM	1749	CD	GLU I		48.122	27.132	-12.399		56.56	C
	1750	OE1			49.031		-11.655	1.00	60.08	
ATOM ATOM	1751		GLU F		48.322				58.00	O C
MOTA	1752	C		3 537	44.161				40.58	Ö
ATOM	1753	Ō		3 537	43.294				40.00	N
ATOM	1754	N		3 538	44.469				38.01 37.67	C
ATOM	1755	CA		3 538	43.794				37.04	č
ATOM	1756			B 538	44.644				35.58	Č
ATOM	1757	CG1			45.952				39.11	Č
ATOM	1758		VAL I		44.916				36.72	C
MOTA	1759		· VAL		42.414				38.84	0
MOTA	1760			B 538	41.477				35.27	N
MOTA	1761			B 539	42.277 40.991				32.74	C
MOTA	1762			B 539	40.991				32.33	С
MOTA	1763			B 539	42.103				28.89	С
ATOM	1764			B 539 B 530	42.103			1.00	27.27	С
ATOM	1765			В 539 В 539	41.379			1.00	25.41	C
ATOM	1766			B 539	40.031			1.00	32.37	С
MOTA	1767			в 539	38.890		-7.305	1.00	31.53	0
MOTA	1768			B 540	40.516		2 -8.605		31.76	N
MOTA	1769			B 540	39.733				34.90	С
ATOM	1770	CA	0110		,					

ATOM	1771	СВ	GLU B 540	•	28.232 -1		1.00 34.37 1.00 36.00	C C
ATOM	1772		GLU B 540	-	28.224 -1 29.560 -1		1.00 39.37	Č
ATOM	1773		GLU B 540 GLU B 540		29.558 -1		1.00 42.75	0
ATOM ATOM	1774 1775		GLU B 540	39.297	30.612 -	12.015	1.00 40.19	0 C
MOTA	1776	C	GLU B 540		_	-9.701	1.00 36.39 1.00 38.72	0
MOTA	1777	0	GLU B 540	••••		-9.569 -9.754	1.00 37.28	N
MOTA	1778	И	PRO B 541 PRO B 541	* ' ' '		-9.829	1.00 35.84	С
ATOM	1779 1780	CD	PRO B 541			-9.646	1.00 37.87	C
ATOM ATOM	1781	CB	PRO B 541	35.070		-9.895	1.00 37.10	C
ATOM	1782	CG	PRO B 541			-9.345	1.00 37.64 1.00 39.34	Č
ATOM	1783	C	PRO B 541		25.671 -: 25.709 -:		1.00 39.51	0
MOTA	1784 1785	O N	PRO B 541 GLU B 542		24.628 -		1.00 41.68	N
ATOM ATOM	1786	CA	GLU B 542	35.626	23.453 -	11.292	1.00 44.41	C C
ATOM	1787	CB	GLU B 542	•	22.190 -		1.00 45.45 1.00 52.64	C
ATOM	1788	CG	GLU B 542			-9.296 -8.601	1.00 55.59	c
ATOM	1789	CD OE1	GLU B 542 GLU B 542	• • • • • • • •		-8.045	1.00 57.23	0
ATOM ATOM	1790 1791	OE2	GLU B 542	37.248	19.965	-8.602	1.00 56.53	O C
ATOM	1792	C	GLU B 542	- ·	23.594 -	12.305	1.00 44.81 1.00 46.84	ő
MOTA	1793	0	GLU B 542		24.177 - 23.051 -		1.00 44.00	N
ATOM	1794	N CA	VAL B 543 VAL B 543		23.154 -		1.00 45.77	C
MOTA MOTA	1795 1796	CB	VAL B 543	34.148	22.486 -	15.802	1.00 46.89	C C
ATOM	1797	CG1	VAL B 543	-	23.406 -		1.00 48.10 1.00 51.04	c
ATOM	1798	CG2			21.112 - 22.542 -		1.00 46.09	С
MOTA	1799	C	VAL B 543 VAL B 543		21.329 -		1.00 46.57	0
ATOM ATOM	1800 1801	N O	LEU B 544	31.436	23.385 -	13.658	1.00 46.41	С И
ATOM	1802	CA	LEU B 544		22.885 -		1.00 47.24 1.00 43.60	c
ATOM	1803	CB	LEU B 544		24.003 - 24.562 -		1.00 43.48	С
MOTA	1804	CG CD1	LEU B 544 LEU B 544		25.854 -		1.00 42.42	C
ATOM ATOM	1805 1806	CD1		29.506	23.453 -	10.270	1.00 41.55	C
ATOM	1807	C	LEU B 544		22.204 -		1.00 49.87 1.00 50.23	Ö
ATOM	1808	0	LEU B 544		22.561 - 21.219 -		1.00 52.75	N
ATOM	1809 1810	Ñ CA	TYR B 545 TYR B 545	27.773	20.509 -	-15.034	1.00 52.89	C
MOTA ATOM	1811	CB	TYR B 545	27.756	19.020 -	-14.730	1.00 53.87	C C
ATOM	1812	CG	TYR B 545	28.930	18.285 - 17.692 -		1.00 53.89 1.00 53.83	č
ATOM	1813	CD1		28.835 29.916	17.040 -		1.00 54.82	С
ATOM ATOM	1814 1815	CE1 CD2		30.148	18.211 -	-14.637	1.00 53.16	C
ATOM	1816	CE2	TYR B 545	31.248	17.557 -		1.00 53.59 1.00 54.13	C
MOTA	1817	CZ	TYR B 545	31.119	16.976 - 16.322 -		1.00 54.13	ŏ
MOTA	1818	OH C	TYR B 545 TYR B 545	32.178 26.369	21.038 -		1.00 53.05	C
MOTA MOTA	1819 1820	Ö	TYR B 545	25.901	21.526 -	-13.998	1.00 52.36	N O
ATOM	1821	N	ALA B 546		20.934 -		1.00 55.27 1.00 58.49	C
ATOM	1822	CA	ALA B 546	24,322 24.136	21.381 - 22.003 -		1.00 59.10	С
ATOM	1823 1824	CB C	ALA B 546 ALA B 546	23.317	20.238 -		1.00 59.76	C
ATOM ATOM	1825	Õ	ALA B 546	22.175	20.466 -		1.00 60.66	o N
ATOM	1826	N	GLY B 547	23.748	19.014 - 17.873 -		1.00 60.65 1.00 60.96	č
ATOM	1827	CA	GLY B 547 GLY B 547	22.856 21.720	17.986		1.00 60.72	С
ATOM ATOM	1828 1829	C	GLY B 547	20.659	17.399	-17.147	1.00 59.16	O N
ATOM	1830	N	TYR B 548	21.940	18.753	-18.387	1.00 61.52 1.00 62.74	C
MOTA	1831	CA	TYR B 548	20.921	18.923 · 19.855 ·		1.00 59.18	С
ATOM	1832	CB CG	TYR B 548 TYR B 548	21.398 20.380	20.087		1.00 55.17	С
ATOM ATOM	1833 1834	CD1		20.375	19.305 ·	-22.720	1.00 53.99	C
ATOM	1835	CE1	TYR B 548	19.487	19.559		1.00 51.38	c c
MOTA	1836		TYR B 548	19.457	21.123 21.384	-21.436 -22.492	1.00 49.83	Č
ATOM	1837	CE2 CZ	TYR B 548 TYR B 548	18.557 18.583	20.592	-23.638	1.00 48.86	. С
ATOM ATOM	1838 1839	OH	TYR B 548	17.736	20.804	-24.694	1.00 46.76	0
ATOM	1840	···C	TYR B 548	20.562	17.590	-20.011	1.00 66.31 1.00 66.88	, C 0
ATOM	1841		TYR B 548	21.442 19.257	16.799 17.365	-20.336		N
MOTA	1842 1843	n Ca	ASP B 549 ASP B 549	18.704	16.152	-20.716	1.00 71.55	С
MOTA MOTA	1844	CB	ASP B 549	17.170	16.149	-20.561	1.00 73.15	C C
MOTA	1845	CG	ASP B 549	16.514	17.480	-20.973 -22.182	1.00 74.14 1.00 73.77	o
ATOM	1846	OD:		16.259 16.250	18.301	-20.063		0
MOTA	1847 1848	OD2	2 ASP B 549 ASP B 549	19.063	15.983	-22.176	1.00 73.19	С
atom atom	1849	o	ASP B 549	18.379	16.515	-23.055	1.00 73.92	N O
ATOM	1850	N	SER B 550	20.148	15.260	-22.438 -23.815	1.00 74.98 1.00 76.61	C
ATOM	1851	CA	SER B 550	20.549	14.330	23.013	2.00 ,0.02	_

2004	1052	СВ	SER B	550	21.935	14.336 -23.871	1.00 75.54	C
ATOM	1852 1853	OG	SER B		21.985	13.167 -23.074	1.00 74.80	0
ATOM ATOM	1854	C	SER B		19.506	14.020 -24.343	1.00 78.04	C
ATOM	1855	ŏ	SER B		18.787	13.387 -23.560	1.00 77.91	0
ATOM	1856	N	SER B		19.422	13.921 -25.665	1.00 79.17	N C
ATOM	1857	CA	SER B		18.474	13.027 -26.323	1.00 81.34	C
ATOM	1858	СВ	SER B		18.504	11.641 -25.659	1.00 82.27	ŏ
ATOM	1859	OG	SER B	551	17.671	11.596 -24.510	1.00 83.00	č
ATOM	1860	С	SER B		17.056	13.600 -26.273	1.00 81.71 1.00 82.14	ŏ
ATOM	1861	0	SER B		16.361	13.680 -27.290	1.00 82.14	N
ATOM	1862	N	VAL B		16.629	13.986 -25.077 14.569 -24.892	1.00 81.85	C
ATOM	1863	CA	VAL B		15.306	14.996 -23.411	1.00 82.63	С
MOTA	1864	CB	VAL B		15.081 13.634	15.480 -23.222	1.00 81.65	С
MOTA	1865	CG1	VAL B		15.443	13.832 -22.458	1.00 83.46	CCC
ATOM	1866	CG2	VAL E		15.162	15.804 -25.793	1.00 81.93	
ATOM	1867 1868	C O	VAL E		16.094	16.608 -25.924	1.00 82.19	0
ATOM ATOM	1869	N	PRO E		13.989	15.967 -26.431	1.00 81.61	Ŋ
ATOM	1870	CD	PRO E		12.791	15.107 -26.323	1.00 80.19	C
ATOM	1871	CA	PRO E		13.738	17.110 -27.318	1.00 80.27	C
ATOM	1872	CB	PRO E		12.218	17.100 -27.451	1.00 80.16	CCC
ATOM	1873	CG	PRO E	3 553	11.905	15.631 -27.436	1.00 79.27 1.00 79.83	č
ATOM	1874	С	PRO E		14.276	18.442 -26.785	1.00 79.83 1.00 79.92	Ö
ATOM	1875	0	PRO E		14.094	18.778 -25.611	1.00 78.79	N
ATOM	1876	N	ASP E		14.940	19.198 -27.654	1.00 77.47	C
MOTA	1877	CA		3 554	15.508	20.482 -27.252 20.717 -27.930	1.00 77.91	C
MOTA	1878	CB	ASP E		16.866 17.872	19.629 -27.615	1.00 77.88	С
MOTA	1879	CG	ASP I		17.860	18.586 -28.303	1.00 78.18	0
MOTA	1880	OD1	ASP I		18.671	19.816 -26.674	1.00 77.69	0
ATOM	1881 1882	C C		3 554	14.594	21.647 -27.565	1.00 76.06	C
ATOM	1883	Ö		3 554	14.241	21.878 -28.720	1.00 75.66	0
ATOM ATOM	1884	N		555	14.219	22.376 -26.520	1.00 74.25	N
MOTA	1885	CA		B 555	13.359		1.00 72.59	C
ATOM	1886	CB		3 555	12.050	23.329 -25.877	1.00 72.79	Ô
ATOM	1887	OG		B 555	12.283	22.710 -24.622	1.00 75.31 1.00 70.73	č
ATOM	1888	C		B 555	14.109	24.793 -26.160	1.00 70.73	· ŏ
MOTA	1889	0		B 555	15.065	24.699 -25.373 25.957 -26.655	1.00 68.52	N
ATOM	1890	N		B 556	13.694	27.219 -26.275	1.00 66.69	C
ATOM	1891	CA		B 556	14.316 13.708	28.438 -27.057	1.00 66.90	C
ATOM	1892	CB		B 556	14.057	28.346 -28.447	1.00 64.81	0
MOTA	1893	0G1		B 556 B 556	14.232	29.772 -26.492	1.00 65.81	С
MOTA	1894	CG2 C		B 556	14.116	27.416 -24.781	1.00 65.58	C
MOTA	1895 1896	0		B 556	14.967	27.994 -24.111	1.00 66.13	0
ATOM ATOM	1897	И		B 557	12.990	26.938 -24.260	1.00 64.21	N
ATOM	1898	CA		в 557	12.701	27.032 -22.831	1.00 63.02	C
MOTA	1899	CB		B 557	11.223	26.695 -22.578	1.00 62.06	C
ATOM	1900	CG		в 557	10.956	26.021 -21.247	1.00 61.31 1.00 60.38	č
ATOM	1901	CD2		B 557	10.540	26.667 -20.037 25.662 -19.046		Č
ATOM	1902	CE2		B 557	10.428	27.997 -19.702		С
ATOM	1903	CE3		B 557	10.254 11.077	24.679 -20.944		С
ATOM	1904			B 557	10.759	24.466 -19.620		N
ATOM	1905			В 557 В 557	10.035	25.958 -17.730		C
ATOM	1906 1907	CZ2			9.865	28.288 -18.395	1.00 61.06	C
MOTA MOTA	1907	CH2			9.759	27.272 -17.426	1.00 61.65	C
ATOM	1909	C	TRP		13.606	26.052 -22.064	1.00 62.58	C
ATOM	1910	Ö	TRP		14.084	26.341 -20.969	1.00 62.10	O N
ATOM	1911	N	ARG	B 558	13.848	24.890 -22.651		C
MOTA	1912	CA	•	B 558	14.684	23.902 -21.999		c
MOTA	1913	CB		B 558	14.796	22.674 -22.895 21.369 -22.140		č
MOTA	1914	ÇG		B 558	14.895	21.369 -22.140 21.116 -21.365		Č
MOTA	1915	CD		B 558	13.611			N
MOTA	1916	NE		B 558	13.716 12.739		_	С
MOTA	1917	CZ NH1		B 558 B 558	11.555	20.114 -19.672	1.00 74.78	N
MOTA	1918 1919	NH2		B 558	12.949	18.440 -18.947	1.00 74.99	N
MOTA	1919	C		B 558	16.076	24.481 -21.693	1.00 61.46	C
ATOM ATOM	.1/921	Ö		B 558	16.485	24.615 -20.530	·:1.00 60.63	. 0
ATOM	1922			B 559	16.792	24.836 -22.751		И С
ATOM	1923	CA		B 559	18.123	25.407 -22.621		C
ATOM	1924	CB	ILE	B 559	18.654			C
ATOM	1925	CG2		в 559	20.123		1.00 60.51 1.00 61.81	Ċ
ATOM	1926			B 559	18.473			C
ATOM	1927			B 559	18.191	444 84 744		Ċ
MOTA	1928	C		B 559	18.085			0
MOTA	1929			B 559	18.802 17.246		_	Ŋ
MOTA	1930			B 560	17.246		1.00 59.34	C
ATOM	1931			B 560 B 560	15.870			С
MOTA	1932	CB	LIFT	P 700	10.070			

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ATOM	1933	CG MET B 560	16.233	31.047 -22.190	1.00 60.38	C S
ATOM	1934	SD MET B 560	17.896	31.173 -22.958	1.00 61.79 1.00 58.94	C
ATOM	1935	CE MET B 560	18.760	31.964 -21.654	1.00 57.75	Ċ
ATOM	1936	C MET B 560	16.926	28.507 -19.801 29.078 -18.952	1.00 57.61	0
ATOM	1937	O MET B 560	17.618 15.998	27.601 -19.505	1.00 55.55	N
MOTA	1938	N THR B 561	15.729	27.198 -18.132	1.00 53.55	C
ATOM	1939	CA THR B 561 CB THR B 561	14.591	26.161 -18.054	1.00 53.95	C
ATOM	1940	CB THR B 561 OG1 THR B 561	13.350	26.820 -18.325	1.00 52.84	0
MOTA	1941 1942	CG2 THR B 561	14.520	25.528 -16.659	1.00 53.12	C C
ATOM ATOM	1943	C THR B 561	16.978	26.605 -17.531	1.00 51.53	o
ATOM	1944	O THR B 561	17.378	26.999 -16.442	1.00 50.26 1.00 49.66	Ŋ
ATOM	1945	N THR B 562	17.579	25.657 -18.248	1.00 49.12	C
ATOM	1946	CA THR B 562	18.810	25.022 -17.808 23.993 -18.849	1.00 50.68	C
MOTA	1947	CB THR B 562	19.320 18.404	22.894 -18.913	1.00 52.09	0
ATOM	1948	OG1 THR B 562 CG2 THR B 562	20.724	23.470 -18.471	1.00 50.87	C
MOTA	1949	CG2 THR B 562 C THR B 562	19.894	26.087 -17.582	1.00 48.40	C
MOTA	1950 1951	O THR B 562	20.567	26.048 -16.553	1.00 47.52	0
ATOM ATOM	1952	N LEU B 563	20.054	27.022 -18.533	1.00 46.37	N C
ATOM	1953	CA LEU B 563	21.048	28.111 -18.428	1.00 44.96 1.00 42.57	Č
ATOM	1954	CB LEU B 563	20.981	29.076 -19.629	1.00 42.57 1.00 41.88	Č
MOTA	1955	CG LEU B 563	21.584	28.534 -20.923 29.608 -21.965	1.00 44.04	С
MOTA	1956	CD1 LEU B 563	21.571 22.993	28.063 -20.692	1.00 38.22	С
MOTA	1957	CD2 LEU B 563 C LEU B 563	20.834	28.906 -17.151	1.00 44.63	C
ATOM	1958	C LEU B 563	21.756	29.073 -16.357	1.00 43.72	0
MOTA	1959 1960	N ASN B 564	19.610	29.395 -16.970	1.00 44.55	N
ATOM ATOM	1961	CA ASN B 564	19.236	30.138 -15.774	1.00 44.34	C C
MOTA	1962	CB ASN B 564	17.725	30.382 -15.768	1.00 45.27 1.00 44.22	č
ATOM	1963	CG ASN B 564	17.205	30.848 -14.422	1.00 47.22	Ō
MOTA	1964	OD1 ASN B 564	16.947	30.039 -13.538 32.152 -14.260	1.00 43.51	N
MOTA	1965	ND2 ASN B 564	17.049 19.643	29.370 -14.518	1.00 44.02	С
ATOM	1966	C ASN B 564 O ASN B 564	19.969	29.977 -13.505	1.00 44.84	0
ATOM	1967 1968	O ASN B 564 N MET B 565	19.631	2B.044 -14.583	1.00 44.14	N G
MOTA MOTA	1969	CA MET B 565	19.999	27.224 -13.433	1.00 45.57	C
ATOM	1970	CB MET B 565	19.510	25.782 -13.651	1.00 49.00 1.00 52.27	Č
ATOM	1971	CG MET B 565	18.756	25.166 -12.488	1.00 52.27	S
ATOM	1972	SD MET B 565	17.174	25.979 -12.316 27.261 -11.015	1.00 56.49	C
ATOM	1973	CE MET B 565	17.492 21.524	27.236 -13.259	1.00 44.03	С
ATOM	1974	C MET B 565 O MET B 565	22.041	27.532 -12.181	1.00 43.31	0
MOTA	1975 1976	N LEU B 566	22.228	26.929 -14.344	1.00 42.39	N
ATOM ATOM	1977	CA LEU B 566	23.678	26.888 -14.345		C C
ATOM	1978	CB LEU B 566	24.170	26.454 -15.718	1.00 41.94 1.00 41.63	č
MOTA	1979	CG LEU B 566	25.678			C
MOTA	1980	CD1 LEU B 566	26.289 25.935			· с
ATOM	1981	CD2 LEU B 566 C LEU B 566	24.247		1.00 41.75	C
ATOM	1982 1983	C LEU B 566	25.291	28.358 -13.327	1.00 41.14	0
ATOM ATOM	1984	N GLY B 567	23.535	29.300 -14.370		N C
ATOM	1985	CA GLY B 567	23.978			č
ATOM	1986	C GLY B 567	23.954			Ö
ATOM	1987	O GLY B 567	24.932			N
ATOM	1988	N GLY B 568	22.861 22.793			С
MOTA	1989 1990	CA GLY B 568 C GLY B 568	23.970		1.00 37.78	С
MOTA ATOM	1990	O GLY B 568	24.615	30.934 -8.896		O N
ATOM	1992		24.259			N C
MOTA	1993	CA ARG B 569	25.351	28.328 -9.318		Č
MOTA	1994	CB ARG B 569	25.391			Č
ATOM	1995		24.270 24.016			С
ATOM	1996		25.145			N
ATOM	1997		25.377		1.00 41.15	C
ATOM ATOM	1998 1999		24.561	23.096 -12.080	1.00 38.05	N N
ATOM	2000		26.413	22.225 -11.028		N C
ATOM	2001	C ARG B 569	26.663	28.987 -9.664		Ö
ATOM	2002	O ARG.B 569	27.512			N
ATOM	2003		26.816 28.044			С
ATOM	2004		28.023		1.00 26.96	C
ATOM	2005 2006			28.885 -13.630	1.00 29.94	C
ATOM ATOM	2007			29.086 -15.079	1.00 32.05	C 0
ATOM	2008		28.926			И
ATOM	2009	NE2 GLN B 570	28.427			C
ATOM	2010					0
ATOM	2011					N
MOTA	2012 2013					С
MOTA	2013	, un the Doil	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

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ATOM	2014	_	VAL E				26.066	34.235 35.723		1.00		C
ATOM	2015		VAL E				26.301 25.385	34.047		1.00	36.18	С
ATOM ATOM	2016 2017		VAL E				27.810	33.241	-8.497	1.00		C
ATOM	2018	0	VAL E	3 5	71		28.591	34.010	-7.938	1.00 1.00		N
ATOM	2019		ILE E				27.283	32.164 31.806	-7.911 -6.524	1.00		C
MOTA	2020		ILE E				27.582 26.692	30.627	-6.016	1.00		С
ATOM ATOM	2021 2022		ILE I				27.329	29.974	-4.816	1.00	24.73	C
ATOM	2023		ILE I				25.274	31.127	-5.646	1.00		C
ATOM	2024	CD1	ILE I				24.231	29.975	-5.373 -6.465	1 00	25.76 29.39	č
MOTA	2025	C	ILE !				29.039 29.769	31.386 31.726	-5.531	1.00	30.70	0
ATOM ATOM	2026 2027	O N	ALA I				29.474	30.657	-7.481	1.00	28.35	N
ATOM	2028	CA	ALA I	3 5	73		30.850	30.207	-7.535		29.00 24.14	C
MOTA	2029		ALA I				30.980 31.812	29.179 31.386	-8.583 -7.780		31.62	č
MOTA	2030		ALA I				32.944	31.388	-7.283	1.00	32.47	0
ATOM ATOM	2031 2032	И О	ALA I				31.335	32.382	-8.530		33.14	n
ATOM	2033	ÇA	ALA	B 5	74		32.070	33.612	-8.842		34.62 32.68	C
MOTA	2034	CB	ALA				31.305 32.252	34.409 34.473	-9.893 -7.571		36.25	Č
ATOM	2035	C O	ALA I				33.312	35.083	-7.348	1.00	35.85	0
ATOM ATOM	2036 2037	N	VAL				31.211	34.528	-6.743		36.10	. С И
ATOM		CA	VAL :	B 5	75		31.264	35.298	-5.503		36.07 36.68	c
MOTA	2039	CB	VAL				29.905 30.010	35.303 36.071	-4.772 -3.449		37.64	С
ATOM	2040 2041	CG1 CG2	VAL				28.869	35.920	-5.662	1.00	38.43	C
ATOM ATOM	2041	C	VAL				32.297	34.694	-4.568		34.65	C
ATOM		0	VAL	B 5	575		33.076	35.411	-3.941 -4.493		34.57 33.52	n
MOTA	2044	N	LYS		576		32.304 33.244	33.368 32.666	-4.493 -3.638		33.16	С
MOTA	2045 2046	CA CB	LYS LYS		576 576		32.904	31.195	-3.560	1.00	35.01	C
ATOM ATOM	2047	ÇG	LYS		576		33.858	30.422	-2.703		33.40	C
MOTA	2048	CD	LYS		576		33.181	29.149 27.899	-2.268 -2.757		32.06 30.86	Č
MOTA	2049	CE	FA2		576 576		33.882 33.386	26.732	-1.978		33.78	Ŋ
ATOM ATOM	2050 2051	NZ C	LYS				34.632	32.803	-4.188		33.72	C
ATOM	2052	Ö	LYS	8 5	576		35.574	33.018	-3.445		34.35 34.39	O N
ATOM	2053	N	TRP				34.767 36.074	32.652 32.806	-5.494 -6.083		35.37	Č
ATOM	2054	CA CB	TRP TRP				35.985	32.696	-7.587	1.00	32.67	C
MOTA MOTA	2055 2056	CG	TRP				37.194	33.216	-8.283		32.89	C
ATOM	2057	CD2	TRP	B :	577		37.332	34.508	-8.911 -9.525		34.50 33.58	c
MOTA	2058	CE2			577		38.607 36.503	34.528 35.636	-9.017		33.35	С
ATOM ATOM	2059 2060	CE3	TRP TRP		577		38.351	32.553	-8.524	1.00	30.90	C
ATOM	2061	NE1	TRP	в :	577		39.202	33.332	-9.272		31.33 36.08	N C
ATOM	2062	CZ2					39.070 36.966	35.654 36.745	-10.249 -9.729		34.03	č
ATOM	2063 2064	CZ3 CH2			577 577		38.237		-10.336	1.00	36.69	C
ATOM ATOM	2065	CHZ	TRP				36.630	34.177	-5.710		38.01	C 0
ATOM	2066	0	TRP				37.756	34.283	-5.241 -5.922		39.58 38.97	N
ATOM	2067	N	ALA				35.833 36.252	35.222 36.593	-5.631		38.72	С
ATOM ATOM	2068 2069	CA CB	ALA ALA				35.103	37.530	-5.864	1.00	38.07	C
ATOM	2070	C	ALA		578		36.772	36.756	-4.211		39.75	C
ATOM	2071	0	ALA				37.760	37.457 36.097	-3.967 -3.275		38.09 39.89	Ŋ
ATOM	2072	N	LYS LYS				36.104 36.502	36.206	-1.887	1.00	41.73	C
MOTA MOTA	2073 2074	CA CB	LYS				35.533	35.464	-0.977	1.00	41.24	C
ATOM	2075	CG	LYS	В	579		34.106	35.917	-1.106		40.91 42.63	C
ATOM	2076	CD	LYS				33.945 32.472	37.384 37.785	-0.757 -0.756		43.30	C
MOTA	2077 2078	CE NZ	LYS LYS				31.682	37.125	0.321	1.00	42.28	N
ATOM ATOM	2079	C	LYS				37.890	35.666	-1.675		43.88	C 0
ATOM	2080	0	LYS	В	579		38.667	36.277	-0.942		46.88 43.34	ń
MOTA	2081	N	ALA				38.198 39.512	34.530 33.893	-2.310 -2.192		43.79	C
MOTA	2082 2083	CA CB	ALA ALA		580 580		39.564		·· -2.950	1.00	40.69	C
MOTA	2083	CB.	ALA			••	40.603	34.785	-2.729		45.05	C 0
MOTA	2085	Ö	ALA	В	580		41.750	34.618	-2.350 -3.631		46.25 47.39	N
ATOM	2086	N	ILE				40.261 41.257				50.16	С
atom Atom	2087 2088	CA CB	ILE ILE				40.598		-5.205	1.00	49.95	C
ATOM	2089	CG2	ILE	В	581		41.634	38.645			46.61	C
MOTA	2090	CG1	ILE	В	581		39.997				50.41	c
MOTA	2091	CDI	ILE				41.032 41.986			1.00	50.67	С
MOTA MOTA	2092 2093		ITE				41.364	38.113	-2.362	1.00	50.55	0
MOTA	2094				582		43.322		-3.012	1.00	51.42	N

ARON 2095 CD PROD 592 44.155 36.270 -3.831 1.00 51.93 CD ARON 2097 CB PROD 592 44.156 36.270 -1.993 1.00 52.23 CD ARON 2097 CB PROD 592 44.159 31.00 52.23 1.00 52.23 ARON 2099 C PROD 592 45.559 31.60 52.2 -2.955 1.00 52.23 CD ARON 2099 C PROD 592 45.559 31.60 52.2 -2.955 1.00 52.23 ARON 2099 C PROD 592 45.599 31.00 52.23 ARON 2099 C PROD 592 45.599 31.00 52.23 ARON 2091 CD PROD 592 45.599 31.00 52.23 ARON 2001 CD PROD 592 45.599 31.00 52.23 ARON 2001 CD PROD 592 45.599 31.00 52.23 ARON 2001 CD PROD 592 45.599 31.00 52.27 CD ARON 2001 CD PROD 592 45.599 31.00 52.27 CD ARON 2001 CD PROD 592 45.599 31.00 52.27 CD ARON 2001 CD PROD 592 45.599 31.00 52.27 CD ARON 2001 CD PROD 592 45.599 31.00 52.27 CD ARON 2001 CD PROD 592 45.599 31.00 52.27 CD ARON 2001 CD PROD 592 45.599 31.00 52.27 CD ARON 2001 CD PROD 592 45.599 31.00 52.27 CD ARON 2001 CD PROD 592 45.299 31.00 52.27 CD ARON 2001 CD PROD 592 45.299 31.00 52.27 CD ARON 2001 CD PROD 592 45.299 31.00 57.81 LO ST. 11.00 57									•			_
ARON 2096 CA PROB 592 44.189 3.639 42.291 1.00 51.78 C C ARON 2098 CG PROB 592 44.176 39.995 -2.995 1.00 52.32 C C ARON 2098 CG PROB 592 44.176 39.995 -2.995 1.00 52.32 C C ARON 2098 CG PROB 592 44.176 39.995 -2.976 1.00 52.42 C C ARON 2098 CG PROB 592 44.176 39.995 -2.976 1.00 52.47 C C ARON 2098 CG PROB 592 44.176 39.995 -2.976 1.00 52.47 C C ARON 2008 CG PROB 592 44.176 39.995 -2.976 1.00 52.47 C C ARON 2008 CG PROB 592 44.176 39.995 -2.976 1.00 52.47 C C ARON 2101 N	ATOM	2095	CD	PRO B	582							C
ARON 2009 C			CA	PRO B	582							С
ATOM 2089 C PROD 8 592 44.755 39.936 -1.972 1.00 52.42 C C C C C C C C C C C C C C C C C C C							-					
MINOR 2100							39.336					
ARON 2101 N GÉY B 583 431.599 393.609 -0.7199 1.000 55.21 C C ARON 2103 C GÉY B 583 41.496 42.779 -0.251 1.000 57.81 C C ARON 2103 C GÉY B 583 41.496 42.779 -0.251 1.000 57.14 O C ARON 2105 C GÉY B 583 41.496 42.779 -0.251 1.000 57.14 O C ARON 2105 C GEY B 583 41.496 42.779 -0.251 1.000 57.14 O C ARON 2105 C G ARON 2107 C G PEE B 584 39.754 41.314 -1.393 1.000 56.28 C ARON 2107 C G PEE B 584 39.754 41.314 -1.393 1.000 56.28 C ARON 2100 C G PEE B 584 39.754 41.314 -1.393 1.000 56.28 C ARON 2100 C G PEE B 584 39.754 41.314 -1.393 1.000 56.28 C ARON 2100 C G PEE B 584 37.737 40.581 -3.304 1.000 51.12 C ARON 2100 C G PEE B 584 37.737 40.581 -3.304 1.000 51.12 C ARON 2100 C G PEE B 584 37.737 40.581 -3.304 1.000 51.12 C ARON 2110 C GD 2 PEE B 584 36.562 40.210 -2.495 1.000 47.25 C ARON 2110 C GD 2 PEE B 584 36.562 40.210 -2.495 1.000 47.25 C C ARON 2112 C E PEE B 584 36.562 40.210 -2.495 1.000 47.55 C C ARON 2112 C PEE B 584 38.293 41.395 -4.3138 1.000 48.800 C C ARON 2114 C PEE B 584 38.293 41.395 -4.3138 1.000 47.67 C C ARON 2114 C PEE B 584 38.293 41.395 -4.3138 1.000 47.67 C C ARON 2114 C PEE B 584 38.293 41.395 -4.3138 1.000 47.67 C C ARON 2114 C PEE B 584 38.293 41.395 -4.3138 1.000 47.67 C C ARON 2114 C PEE B 584 38.293 41.395 -4.3138 1.000 48.80 C C PEE B 584 38.293 41.395 -4.3138 1.000 48.80 C C PEE B 584 38.293 41.395 -4.3138 1.000 48.80 C C PEE B 584 38.293 41.395 -4.3138 1.000 48.80 C C PEE B 584 38.293 41.395 -4.3138 1.000 48.80 C C PEE B 584 38.293 41.395 -4.3138 1.000 48.80 C C C ARON 8 585 38.562 40.632 1.624 1.000 55.08 N R ARON 2119 C ARON 2119 C ARON 2120 C ARON 8 585 38.562 40.632 1.624 1.000 55.08 N R ARON 2120 C C ARON 8 585 39.304 1.000 48.200 1.000 55.08 N R ARON 2121 C C ARON 8 585 39.304 1.000 56.20 1.000 56.30 N R ARON 2122 C C ARON 8 585 39.304 1.000 56.20 1.000 56.30 N R ARON 2123 C C ARON 8 586 40.500 40.300 1.000 56.30 N R ARON 2124 C C ARON 8 586 40.500 40.300 1.000 56.30 N R ARON 2124 C C ARON 8 586 40.500 40.300 1.000 56.30 N R ARON 2125 C C ARON 8 586 40.500 40.300 1.000 56.100 56.			0	PRO B	582							
ATOM 2102 CA GLI B 263		2101										C
ARON 2104 O CLLY B 583									1.00	57.81		
NECONS 2105 N PHE B 564 41.153 41.015 -1.033 1.00 56.26 C												
ATOM 2100 CB PHE B 564 391,634 11.197 -2.742 1.00 54.11 C PATOM 2100 CB PHE B 564 377,737 40.81 -3.004 1.00 51.12 C PATOM 2100 CB PHE B 564 377,737 40.81 -3.004 1.00 51.12 C PATOM 2100 CB PHE B 564 377,737 40.81 -3.004 1.00 49.08 C PATOM 2110 CD PHE B 564 377,737 40.81 -3.004 1.00 49.08 C PATOM 2110 CD PHE B 564 376,562 40.210 -2.644 1.00 49.08 C PATOM 2110 CD PHE B 564 36.597 41.739 -4.955 1.00 47.25 C PATOM 2112 CD PHE B 564 36.597 41.739 -3.138 1.00 48.00 C PATOM 2112 CD PHE B 564 38.220 41.739 -4.315 1.00 48.00 C PATOM 2112 CD PHE B 564 38.220 41.345 -4.315 1.00 47.67 C PATOM 2115 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2115 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2115 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2115 C PATOM 2115 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2115 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2115 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2115 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2119 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2119 CD PHE B 564 38.220 42.433 -0.617 1.00 56.26 C PATOM 2119 CD PHE B 564 38.220 42.433 -0.617 1.00 56.37 C PATOM 2119 CD PHE B 564 38.220 42.433 -0.617 1.00 56.37 C PATOM 2119 CD PHE B 564 38.55 37.513 38.522 1.305 1.00 67.70 C PATOM 2121 PC PATOM 2122 PC PATOM 2122 PC PATOM 2122 PC PATOM 2123 PC PATOM 2123 PC PATOM 2124 PC PATOM 212				PHE B	584							
AROM 2100 GC PRES B 584 37,737 40.581 -3.304 1.00 51.12 C AROM 2100 GC PRES B 584 37,622 41.348 -4.476 1.00 49.08 C AROM 2100 GC PRES B 584 36.562 40.210 -2.644 1.00 49.85 C AROM 2111 GC PRES B 584 36.562 40.210 -2.644 1.00 49.85 C AROM 2112 GC PRES B 584 35.308 40.594 -3.138 1.00 47.25 C AROM 2112 GC PRES B 584 38.995 41.493 -0.617 1.00 56.25 G AROM 2114 C PRES B 584 38.995 41.493 -0.617 1.00 56.26 G C AROM 2114 C PRES B 584 38.995 41.493 -0.617 1.00 56.26 G C AROM 2114 C PRES B 584 38.995 41.493 -0.617 1.00 56.26 G C AROM 2114 C PRES B 584 38.995 41.493 -0.617 1.00 56.26 G C AROM 2116 N ARG B 585 38.662 40.532 1.624 1.00 63.76 C AROM 2118 C ARG 8 585 38.662 39.235 40.592 1.00 47.67 C C AROM 2119 C ARG 8 585 38.662 39.235 40.592 1.00 67.70 C AROM 2119 C ARG 8 585 37.833 36.602 1.00 67.70 C AROM 2120 CD ARG 8 585 37.833 36.602 1.00 67.70 C AROM 2120 CD ARG 8 585 37.833 36.602 1.00 67.70 C AROM 2120 CD ARG 8 585 37.833 36.602 1.221 1.00 71.46 C AROM 2120 CD ARG 8 585 37.833 36.603 2.427 1.00 77.37 N AROM 2121 NE ARG 8 585 35.664 37.833 36.003 2.427 1.00 77.37 N AROM 2122 C 2 ARG 8 585 39.610 37.196 4.123 1.00 77.37 N AROM 2122 C 2 ARG 8 585 39.610 37.196 4.123 1.00 77.37 N AROM 2122 C 2 ARG 8 585 39.610 37.196 4.123 1.00 77.37 N AROM 2122 C 2 ARG 8 585 39.610 37.196 4.123 1.00 77.37 N AROM 2122 N ARA 88 585 39.115 41.711 2.537 1.00 62.76 C AROM 2122 C ARG 8 585 39.115 41.711 2.537 1.00 64.65 N AROM 2126 C ARG 8 585 39.115 41.711 2.537 1.00 64.65 N AROM 2127 N ARA 88 586 42.275 43.472 2.504 1.00 65.36 C AROM 2127 N ARA 88 586 42.275 43.472 2.504 1.00 66.13 C AROM 2127 N ARA 88 586 42.275 43.472 2.504 1.00 66.61 C AROM 2137 N ARA 88 586 42.275 43.472 2.504 1.00 66.61 C AROM 2137 N ARA 88 586 42.275 43.472 2.504 1.00 66.61 C AROM 2137 N ARA 88 586 42.275 43.472 2.504 1.00 66.61 C AROM 2137 N ARA 88 586 42.275 43.472 2.504 1.00 66.61 C ARA 88 586 42.275 43.472 2.504 1.00 66.61 C ARA 88 586 42.275 43.472 2.504 1.00 66.61 C ARA 88 586 42.275 43.472 2.504 1.00 66.61 C ARA 88 586 42.275 43.472 2.504 1.00 66.61 C ARA 88	ATOM								1.00	54.11		
ATOM 2109 CDJ PHE B 584 37.642 41.348 -4.476 1.00 49.95 C ATOM 2111 CDL PHE B 584 36.592 40.210 -2.644 1.00 49.95 C ATOM 2111 CDL PHE B 584 36.397 41.739 -4.985 1.00 47.867 C ATOM 2112 CDL PHE B 584 35.221 41.393 -4.315 1.00 56.26 C ATOM 2113 CDL PHE B 584 35.223 41.393 -0.616 1.00 56.26 C ATOM 2113 CDL PHE B 584 35.223 41.393 -0.616 1.00 56.26 C ATOM 2115 C PHE B 584 38.220 42.433 -0.616 1.00 56.26 C ATOM 2115 C PHE B 584 38.220 42.433 -0.616 1.00 56.26 C ATOM 2115 C PHE B 584 38.220 42.433 -0.616 1.00 58.69 N ATOM 2116 N ARG B 585 39.255 40.522 01.631 1.00 58.69 N ATOM 2117 CA ARG B 585 38.562 38.267 2.305 1.00 63.76 C ATOM 2119 CB ARG B 585 38.562 38.227 1.968 1.00 63.76 C ATOM 2119 CB ARG B 585 37.834 38.222 1.968 1.00 63.76 C ATOM 2120 CD ARG B 585 37.834 38.222 1.968 1.00 63.76 C ATOM 2120 CD ARG B 585 37.834 36.203 22.412 1.00 71.46 C ATOM 2121 CDL ARG B 585 36.627 36.039 2.427 1.00 74.39 N ATOM 2121 CDL ARG B 585 36.627 36.039 2.427 1.00 74.39 N ATOM 2122 C ARG B 585 37.834 6.01 35.355 3.199 1.00 67.70 C ATOM 2123 NRIL ARG B 585 39.624 36.198 3.248 1.00 76.32 C ATOM 2125 C ARG B 585 39.624 36.198 3.248 1.00 76.32 C ATOM 2125 C ARG B 585 39.624 36.198 3.248 1.00 76.32 C ATOM 2125 C ARG B 585 39.624 36.198 3.248 1.00 76.32 C ATOM 2125 C ARG B 585 39.624 36.198 3.248 1.00 76.32 C ATOM 2125 C ARG B 585 39.624 36.637 3.655 1.00 64.45 N ATOM 2125 C ARG B 585 39.624 36.637 36.60				-								
ATOM 2111 CEL PHE B 584												
ATOM 2112 CE2 PIEB 8 894		2110							1.00	47.25		C
ATOM 2115 CX PRIE B 584 35.223 41.365 -4.315 1.00 47.57 C C ATOM 2114 C PRIE B 584 38.995 41.493 -0.480 1.00 55.26 O N ATOM 2115 O PRIE B 584 38.220 42.433 -0.480 1.00 55.26 O N ATOM 2116 N ANG B 595 38.562 40.632 1.624 1.00 61.91 C ATOM 2117 CA ANG B 595 38.562 40.632 1.624 1.00 61.91 C ATOM 2118 C ANG B 595 38.562 40.632 1.624 1.00 61.91 C ATOM 2119 CC ANG B 595 37.513 38.322 1.968 1.00 67.70 C ATOM 2119 CC ANG B 595 37.513 38.322 1.968 1.00 67.71 C C ATOM 2120 CD ANG B 595 37.513 38.322 1.968 1.00 67.71 4.65 C ATOM 2120 CD ANG B 595 37.513 38.322 1.968 1.00 67.71 4.65 C ATOM 2121 NE ANG B 595 37.513 38.322 1.968 1.00 67.73 N N ATOM 2124 NIZ ANG B 595 37.513 38.322 1.968 1.00 67.73 N N ATOM 2124 NIZ ANG B 595 37.513 38.322 1.968 1.00 67.73 N N ATOM 2125 C ANG B 595 37.513 38.322 1.968 1.00 67.73 N N ATOM 2125 C ANG B 595 37.514 1.00 74.45 N N ATOM 2125 C ANG B 595 37.514 1.00 74.45 N N ATOM 2125 C ANG B 595 39.115 41.711 2.5377 1.00 62.76 C ATOM 2120 C ANG B 595 39.115 41.711 2.5377 1.00 62.76 C ATOM 2121 N ANG B 596 40.113 42.435 2.035 1.00 64.45 N N ATOM 2125 C ANG B 595 39.115 41.711 2.5377 1.00 62.64 N N ATOM 2120 C ANG B 596 40.113 42.435 2.035 1.00 64.51 N N ATOM 2121 ND ANG B 586 42.275 43.472 2.504 1.00 66.13 C ATOM 2123 ND ANG B 586 42.275 43.472 2.504 1.00 66.13 C ATOM 2130 C ANG B 586 42.290 42.392 3.201 1.00 67.85 C ATOM 2131 OD ANG B 586 40.188 44.872 2.372 1.00 66.61 C ATOM 2131 OD ANG B 586 40.188 44.872 2.372 1.00 66.61 C ATOM 2131 OD ANG B 586 40.188 44.872 2.372 1.00 66.61 C ATOM 2131 C ANG B 586 40.188 44.872 2.392 3.20 1.00 67.85 C ATOM 2131 C ANG B 586 40.188 44.872 2.392 3.20 1.00 67.85 C ATOM 2131 OD ANG B 586 40.188 44.872 2.392 3.20 1.00 67.85 C ATOM 2131 C ANG B 586 40.188 44.872 2.392 3.20 1.00 67.85 C ATOM 2131 C ANG B 586 ANG									1.00	48.80		
## ATOM												
ATOM 2115 O PHE B 594				PHE B	584							
ATOM 2116 N ARG B 585 38. 5622 40. 532 1. 624 1.00 61.91 C ATOM 2119 CA ARG B 585 38. 662 39.267 2.305 1.00 63.76 C ATOM 2120 CA ARG B 585 37.513 38. 322 1.968 1.00 67.70 C ATOM 2120 CA ARG B 585 37.513 38. 322 1.968 1.00 67.70 C ATOM 2120 CA ARG B 585 37.513 38. 322 1.968 1.00 67.70 C ATOM 2120 CA ARG B 585 37.513 38. 322 1.968 1.00 67.70 C ATOM 2121 NE ARG B 585 36.624 36.093 2.427 1.00 74.39 N ATOM 2121 NE ARG B 585 36.624 37.194 1.00 77.37 N ATOM 2123 NEI ARG B 585 36.624 37.196 4.123 1.00 77.37 N ATOM 2123 NEI ARG B 585 34.601 35.355 3.199 1.00 75.99 N ATOM 2124 NI12 ARG B 585 34.601 35.355 3.199 1.00 75.99 N ATOM 2126 C ARG B 585 34.601 37.196 4.123 1.00 77.37 N ATOM 2126 C ARG B 585 34.601 37.355 3.199 1.00 75.99 N ATOM 2127 N ASM 586 40.766 43.535 3.157 1.711 2.537 1.00 62.76 C ATOM 2129 CA ASM B 586 40.766 43.535 3.199 1.00 64.45 N ATOM 2129 CA ASM B 586 40.766 43.513 2.711 1.00 64.61 C ATOM 2129 CA ASM B 586 42.275 41.711 2.537 1.00 66.13 C ATOM 2120 CA ASM B 586 42.275 41.712 2.554 1.00 66.13 C ATOM 2130 CA ASM B 586 42.275 41.712 2.554 1.00 66.13 C ATOM 2131 CO ASM B 586 42.275 41.712 2.554 1.00 66.13 C ATOM 2131 CO ASM B 586 42.354 41.09 41.99 42.994 1.00 66.13 C ATOM 2131 CO ASM B 586 42.354 41.93 44.104 1.00 65.32 N ATOM 2134 C ASM B 586 40.564 41.09 41.994 1.00 66.53 N ATOM 2135 N LEUB 587 38.564 40.594 1.994 1.00 66.15 S N ATOM 2139 CD LEUB 587 38.564 46.047 0.956 1.00 61.58 C ATOM 2130 CD LEUB 587 38.564 46.047 0.956 1.00 61.58 C ATOM 2131 CD LEUB 587 38.564 46.047 0.956 1.00 61.58 C ATOM 2134 C ASM B 586 60.188 41.994 1.00 66.15 S C ATOM 2134 C ASM B 586 60.188 41.994 1.00 66.15 S C ATOM 2134 C ASM B 586 60.188 41.994 1.00 66.15 S C ATOM 2134 C ASM B 586 60.188 41.994 1.00 66.15 S C ATOM 2134 C ASM B 586 60.188 41.994 1.00 66.15 S C ATOM 2134 C ASM B 586 60.188 41.994 1.00 66.15 S C ATOM 2134 C ASM B 586 60.188 41.994 1.00 66.15 S C ATOM 2135 C ASM B 586 60.188 41.994 1.00 66.15 S C ATOM 2135 C ASM B 586 60.188 587 38.556 40.00 60.00 60.188 50.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.0							_		1.00	58.69		
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ATOM 2162 CA ASP B 590 30.765 50.081 0.462 1.00 71.59 C ATOM 2164 CG ASP B 590 29.736 50.921 -0.292 1.00 74.91 C ATOM 2165 OD1 ASP B 590 29.611 50.765 -1.526 1.00 75.74 O ATOM 2166 OD2 ASP B 590 29.061 51.759 0.356 1.00 76.72 O ATOM 2167 C ASP B 590 31.168 48.317 -1.249 1.00 66.47 C ATOM 2168 O ASP B 590 30.468 47.730 -2.063 1.00 66.93 O ATOM 2169 N ASP B 591 32.396 48.739 -1.531 1.00 64.99 N ATOM 2170 CA ASP B 591 32.971 48.571 -2.866 1.00 63.02 C ATOM 2171 CB ASP B 591 34.228 49.435 -2.981 1.00 62.05 C ATOM 2172 CG ASP B 591 35.166 49.222 -1.839 1.00 61.62 C ATOM 2173 OD1 ASP B 591 35.780 50.218 -1.391 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.94 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.94 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.94 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.94 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.94 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.94 O ATOM 2174 OD2 ASP B 591 35.285 ATOM 2174 OD2 ATOM 2174 OD2 ASP B 591 35.285 ATOM 2174 O		2161										С
ATOM 2164. CG ASP B 590 29.736 50.921 -0.292 1.00 74.91 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				ASP E	3 590 3 590			0.462	1.00	71.59		
ATOM 2165 OD1 ASP B 590 29.611 50.765 -1.326 1.00 76.72 OD ATOM 2166 OD2 ASP B 590 31.168 48.317 -1.249 1.00 66.47 CD ATOM 2168 OD3 ASP B 590 30.468 47.730 -2.063 1.00 66.93 ND ATOM 2169 N ASP B 591 32.396 48.739 -1.531 1.00 64.99 ND ATOM 2170 CA ASP B 591 32.971 48.571 -2.866 1.00 63.02 CD ATOM 2171 CB ASP B 591 34.228 49.435 -2.981 1.00 62.05 CD ATOM 2172 CG ASP B 591 34.228 49.435 -2.981 1.00 60.86 ATOM 2173 OD1 ASP B 591 35.166 49.222 -1.839 1.00 60.86 ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 OD ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 OD ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 OD ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.94 CD			. CG	ASP E	3 590	29.736	.50.921			74.91	٠.٠	
ATOM 2166 OD2 ASP B 590 31.168 48.317 -1.249 1.00 66.47 C ATOM 2167 C ASP B 590 30.468 47.730 -2.063 1.00 66.93 O ATOM 2169 N ASP B 591 32.396 48.739 -1.531 1.00 64.99 N ATOM 2170 CA ASP B 591 32.971 48.571 -2.866 1.00 63.02 C ATOM 2171 CB ASP B 591 34.228 49.435 -2.981 1.00 62.05 C ATOM 2172 CG ASP B 591 35.166 49.222 -1.839 1.00 61.62 C ATOM 2173 OD1 ASP B 591 35.780 50.218 -1.391 1.00 60.86 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 C C		2165	OD:	ASP E	3 590					76.72		0
ATOM 2168 O ASP B 590 30.468 47.730 -2.063 1.00 66.93 N ATOM 2169 N ASP B 591 32.396 48.739 -1.531 1.00 64.99 N ATOM 2170 CA ASP B 591 32.971 48.571 -2.866 1.00 63.02 C ATOM 2171 CB ASP B 591 34.228 49.435 -2.981 1.00 62.05 ATOM 2172 CG ASP B 591 35.166 49.222 -1.839 1.00 61.62 C ATOM 2173 OD1 ASP B 591 35.780 50.218 -1.391 1.00 60.86 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 C	ATOM							-1.249	1.00	66.47		
ATOM 2169 N ASP B 591 32.396 48.739 -1.531 1.00 64.99 ATOM 2170 CA ASP B 591 32.971 48.571 -2.866 1.00 63.02 ATOM 2171 CB ASP B 591 34.228 49.435 -2.981 1.00 62.05 ATOM 2172 CG ASP B 591 35.166 49.222 -1.839 1.00 61.62 ATOM 2173 OD1 ASP B 591 35.780 50.218 -1.391 1.00 60.86 ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 C C C C C C C C C C C C C C C C C C C						30.468	47.730	-2.063	1.00	66.93		
ATOM 2170 CA ASP B 591 32.971 48.571 -2.000 1.00 62.05 C ATOM 2171 CB ASP B 591 34.228 49.435 -2.981 1.00 62.05 C ATOM 2172 CG ASP B 591 35.166 49.222 -1.839 1.00 61.62 ATOM 2173 OD1 ASP B 591 35.780 50.218 -1.391 1.00 60.86 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 ATOM 2174 OD2 ASP B 591 33.271 47.109 -3.198 1.00 60.44 C				ASP I	591	32.396	48.739					С
ATOM 2172 CG ASP B 591 35.166 49.222 1.391 1.00 60.86 O ATOM 2173 OD1 ASP B 591 35.780 50.218 -1.391 1.00 60.86 O ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 O ATOM 2175 2 ASP B 591 33.271 47.109 -3.198 1.00 60.44 C	MOTA	2170	CA				465		1.00	62.05		C
ATOM 2172 OD 1 ASP B 591 35.780 50.218 -1.391 1.00 60.86 ATOM 2174 OD2 ASP B 591 35.285 48.051 -1.411 1.00 60.93 ATOM 2174 OD2 ASP B 591 33.271 47.109 -3.198 1.00 60.44							49.222	-1.839	1.0	61.62		C
ATOM 2174 OD2 ASP B 591 35.285 48.031 1.411 1.00 60.44 C			OD	1 ASP	B 591	35.780	50.218					
	ATOM	2174	OD	2 ASP	B 591							
	ATOM	2175	C	ASP	D J2T	JJ. Z / J						

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								- 00 50 50		0
ATOM	2176	0	ASP B		33.292	46.701	-4.365 -2.150	1.00 59.52 1.00 57.96		N
ATOM	2177	N	GLN B		33.486 33.759	46.327	-2.287	1.00 55.86		C
ATOM ATOM	2178 2179	CA CB	GLN B	592	33.806	44.270	-0.913	1.00 52.74		C
ATOM	2180		GLN B	592	34.394	42.889	-0.896	1.00 47.79 1.00 46.59		C
MOTA	2181	CD	GLN B		34.647	42.391 41.538	0.516 1.026	1.00 47.73		Ö
MOTA	2182		GLN B		33.920 35.675	42.933	1.160	1.00 42.57		N
ATOM ATOM	2183 2184	NE Z	GLN B		32.662	44.261	-3.123	1.00 57.21		C
ATOM	2185	ō	GLN B	592	32.946	43.563	-4.095	1.00 58.46 1.00 57.03		N O
ATOM	2186	И		593	31.403 30.304	44.479 43.890	-2.757 -3.522	1.00 58.13		С
MOTA	2187 2188	CA CB		593 593	29.082	43.738	-2.617	1.00 59.13		C
ATOM ATOM	2189	CG		593	28.448	45.054	-2.267	1.00 61.82		C S
ATOM	2190	SD		593	26.724	45.227 45.936	-2.812 -1.325	1.00 62.27 1.00 60.13		č
ATOM	2191 2192	CE		593 593	25.943 29.965	44.728	-4.792	1.00 57.90		C
ATOM ATOM	2192	Ö		593	29.296	44.257	-5.730	1.00 58.13		O N
ATOM	2194	N	THR B		30.448	45.966	-4.821 -5.966	1.00 55.54 1.00 53.53		C
ATOM	2195	CA	THR B		30.240 30.828	46.834 48.231	-5.715	1.00 54.22		С
MOTA MOTA	2196 2197	CB OG1	THR B		30.023	48.858	-4.668	1.00 54.35		0
ATOM	2198	CG2	THR B	594	30.769	49.104	-6.982	1.00 52.29 1.00 52.60		C
MOTA	2199	C	THR B		30.952 30.412	46.211 46.183	-7.154 -8.261	1.00 52.89		o
MOTA	2200 2201	O N	THR B		32.159	45.699	-6.912	1.00 50.76		N
ATOM ATOM	2202	CA	LEU B		32.979	45.057	-7.946	1.00 47.18		C
MOTA	2203	CB		595	34.350	44.706 45.855	-7.365 -6.740	1.00 45.20 1.00 41.28		Č
MOTA	2204 2205	CG CD1	LEU B		35.111 36.401	45.322	-6.283	1.00 41.87		C
ATOM ATOM	2205	CD2	LEU B		35.362	46.960	-7.720	1.00 41.01		C
MOTA	2207	С	LEU B	595	32.282	43.796 43.517	-8.454 -9.656	1.00 46.37 1.00 45.95		Ö
MOTA	2208	N O	LEU B		32.257 31.703	43.046	-7.525	1.00 44.90		N
ATOM ATOM	2209 2210	CA	LEU B		30.989	41.833	-7.878	1.00 44.60		C
ATOM	2211	CB	LEU B	_	30.632	41.039 40.200	-6.627 -6.025	1.00 44.87 1.00 46.28		C
ATOM	2212	CG CD1	LEU B		31.760 31.240	39.549	-4.728	1.00 44.08		С
ATOM ATOM	2213 2214	CD2			32.260	39.152	-7.059	1.00 43.56		C
ATOM	2215	С	LEU B	596	29.718	42.136	-8.654 -9.547	1.00 43.94 1.00 43.36		0
ATOM	2216	O N	LEU B		29.327 29.063	41.378 43.239	-8.304	1.00 44.41		N
MOTA MOTA	2217 2218	CA	GLN B		27.836	43.624	-8.994	1.00 44.22		C
ATOM	2219	CB	GLN B	597	27.036	44.624 44.004	-8.170 -7.121	1.00 43.70 1.00 45.17		C
MOTA	2220 2221	CG CD	GLN B		26.136 25.330	45.061	-6.370	1.00 46.67		C
ATOM ATOM	2222	OE1			25.902	45.964	-5.758	1.00 44.31		Ŋ
MOTA	2223	NE2			24.000 28.130	44.959 44.201	-6.425 -10.363	1.00 45.92 1.00 43.51		Ċ
MOTA	2224 2225	C O	GLN B		27.235		-11.189	1.00 43.06		0
ATOM ATOM	2226	N	TYR B	598	29.392		-10.606	1.00 43.91 1.00 44.52		N C
ATOM	2227	CA	TYR B		29.779 30.740		-11.893 -11.688	1.00 49.40		C
MOTA	2228 2229	CB CG	TYR B		30.796		-11.631	1.00 55.50		C
MOTA MOTA	2230	CD1	TYR B	598	29.731		-12.807	1.00 58.10		C
MOTA	2231	CE1			29.136 29.819		-12.771 -10.403	1.00 59.25 1.00 57.60		Ç
MOTA	2232 2233	CD2 CE2			29.222		-10.347	1.00 58.64		C
atom atom	2234	CZ	TYR E	598	28.881		-11.541	1.00 60.23 1.00 60.97		C
ATOM	2235	OH	TYR P		28.338 30.442		-11.523 -12.811	1.00 60.97 1.00 42.76		Č
MOTA	2236 2237	C O	TYR E		30.239		-14.012	1.00 43.11		0
ATOM ATOM	2238	Ŋ	SER E	3 599	31.218		-12.253	1.00 40.24 1.00 38.10		N C
ATOM	2239	CA	SER E		31.962 33.406		-13.077 -12.609	1.00 38.84		C
MOTA	2240 2241	CB OG	SER E		33.436		-11.217	1.00 41.44		0
ATOM ATOM	2242	Č	SER E	3 599	31.450	40.779	-13.119	1.00 36.81		C 0
MOTA	2243	0	SER E	3 599	32.035		-13.791 -12.416	1.00 33.47 1.00 36.87		N
MOTA	2244	N	TRP F	3 600 3600	30.360 29.855		-12.432	1.00 37.34		С
atom Atom	2245 2246	CA CB		3 600	28.619	38.988	-11.531	1.00 37.64	()	C
ATOM	2247	CG	TRP F	3 600	27.353	39.609	-12.058 -12.929	1.00 39.47 1.00 39.12		C
MOTA	2248		TRP I		26.391 25.380		-12.929	1.00 38.35		C
MOTA MOTA	2249 2250	CE3	TRP I		26.290	37.721	-13.521	1.00 40.66		C
ATOM	2251	CD1	TRP I	в 600	26.894	40.882	-11.827 -12.501	1.00 39.04 1.00 38.87		C N
ATOM	2252	NE!	TRP 1		25.710 24.276		-12.501 -14.010	1.00 40.05		C
MOTA MOTA	2253 2254	CZ		в 600	25.192	37.442	-14.342	1.00 42.25		C
MOTA	2255	CH2	TRP 1	в 600	24.196	38.419	-14.580 -13.875			C
MOTA	2256	С	TRP 1	в 600	29.547	30.014	13.073			

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ATOM	2257 O TRP B 600	29.753 37.509 -14.236 1.00 38.47
ATOM	2258 N MET B 601	29.074 39.304 25.007 3.00 36.22
ATOM	2259 CA MET B 601	28.760 33.130 -16.683 1.00 36.54
MOTA	2260 CB MET B 601 2261 CG MET B 601	27, 290 39, 913 -18, 139 1,00 33, 77
atom atom	2261 CG MET B 601 2262 SD MET B 601	26.770 38.194 -18.386 1.00 37.93
ATOM	2263 CE MET B 601	24.969 30.343 16 025 1 00 35 10
ATOM	2264 C MET B 601	30.045 35.151 -17.926 1.00 34.01
MOTA	2265 O MET B 601 2266 N PHE B 602	31 056 39.894 -16.527 1.00 34.44
MOTA	2266 N PHE B 602 2267 CA PHE B 602	32.350 39.898 -17.213 1.00 32.17
ATOM ATOM	2268 CB PHE B 602	33.255 41.000 12.055 1 00 35.62
ATOM	2269 CG PHE B 602	32.861 42.462 -16.398 1.00 33.13
ATOM	2270 CD1 PHE B 602 2271 CD2 PHE B 602	33 519 43.035 -18.124 1.00 35.41
MOTA	2271 CD2 PHE B 602 2272 CE1 PHE B 602	31.457 44.387 -16.795 1.00 32.15
ATOM ATOM	2273 CE2 PHE B 602	33.133 44.333 27.000 1 00 31 30
MOTA	2274 CZ PHE B 602	32.120 38.523 -16.974 1.00 30.79
ATOM	2275 C PHE B 602	33.354 37.814 -17.915 1.00 28.04
MOTA	2276 O PHE B 602 2277 N LEU B 603	33.110 38.171 -15.693 1.00 30.92
ATOM ATOM	2278 CA LEU B 603	33.633 30.632 13 714 1 00 27 50
ATOM	2279 CB LEU B 603	33.474 30.780 -12.893 1.00 29.93
ATOM	2280 CG LEU B 603 2281 CD1 LEU B 603	33.606 37.785 -11.471 1.00 31.17
ATOM	2281 CD1 LEU B 603 2282 CD2 LEU B 603	35,696 37.808 -12.949 1.00 20.73
ATOM ATOM	2283 C LEU B 603	33.024 35.005 15.716 1 00 30 97
ATOM	2284 O LEU B 603	33.073 35.412 -15.696 1.00 32.54
MOTA	2285 N MET B 604 2286 CA MET B 604	31 107 34.260 -16.314 1.00 31.78
MOTA	2286 CA MET B 604 2287 CB MET B 604	29 654 34.204 -15.870 1.00 32.43
ATOM ATOM	2288 CG MET B 604	29.480 34.486 -14.379 1.00 35.71 29.480 33.838 -13.677 1.00 43.51
MOTA	2289 SD MET B 604	27.919 33.000 11 00 30 81
MOTA	2290 CE MET B 604	31 222 34.265 -17.845 1.00 30.43
ATOM	2291 C MET B 604 2292 O MET B 604	31.459 33.241 -18.490 1.00 28.87
MOTA MOTA	2293 N ALA B 605	31.000 33.23 1 00 30 89
ATOM	2294 CA ALA B 605	31.163 35.948 -20.294 1.00 29.28
ATOM	2295 CB ALA B 605	32.612 35.205 -20.330 1.00 31.15
ATOM	2296 C ALA B 605 2297 O ALA B 605	32.837 34.557 -21.364 1.00 31.01
MOTA MOTA	2298 N PHE B 606	33.365 33.002 1 00 29 24
ATOM	2299 CA PHE B 606	34.902 35.360 -19.096 1.00 29.25
ATOM	2300 CB PHE B 606 2301 CG PHE B 606	37 261 36.422 -19.714 1.00 28.32
atom atom	2301 CG PHE B 606 2302 CD1 PHE B 606	37.410 36.934 -21.001 1.00 27.93
ATOM	2303 CD2 PHE B 606	30.393 30.035 21 00 30 02
MOTA	2304 CE1 PHE B 606	30.673 36.275 -19.502 1.00 24.64
MOTA	2303 000	39.807 36.784 -20.776 1.00 28.05
MOTA MOTA	2306 CZ PHE B 606 2307 C PHE B 606	35.267 33.899 -19.665 1.00 27.75
ATOM	2308 O PHE B 606	33.337
ATOM	2309 N ALA B 607	34.895 31.890 -18.313 1.00 25.29
ATOM	2310 CA ALA B 607 2311 CB ALA B 607	34.230 31.566 -16.995 1.00 23.67
ATOM ATOM	2312 C ALA B 607	34.302 31.031 13.000 1.00 22 98
ATOM	2313 O ALA B 607	34.909 30.030 13.302 1.00 28.80
ATOM	2314 N LEU B 608 2315 CA LEU B 608	32 425 30.763 -20.993 1.00 27.87
MOTA MOTA	2315 CA LEU B 608 2316 CB LEU B 608	31.059 31.392 -21.219 1.00 27.02
MOTA	2317 CG LEU B 608	30.310 30.300
ATOM	2318 CD1 LEU B 608	20 006 31 644 -22,556 1.00 28.47
ATOM	2319 CD2 LEU B 608 2320 C LEU B 608	33 272 30.855 -22.258 1.00 30.33
ATOM ATOM	2321 O LEU B 608	33.272 30.033 22.046 1.00 30.76 33.335 29.908 -23.046 1.00 30.76 33.907 32.004 -22.472 1.00 31.11
ATOM	2322 N GLY B 609	33.307 32.152 -23.629 1.00 34.16
ATOM	2323 CA GLY B 609	34.760 32.152 -23.597 1.00 35.91
ATOM	600	36 184 30.396 -24.552 1.00 33.00
MOTA	2326 N TRP B 610	36.684 31.143 -22.477 1.00 38.40
ATOM ATOM	2327 CA TRP B 610	37.846 30.447 -20.916 1.00 40.90
ATOM	2328 CB TRP B 610	39 607 29.467 -20.641 1.00 43.21
ATOM	ARAR ARA MED M NIU	40 991 29.603 -21.034 1.00 42.95
ATOM ATOM	2331 CE2 TRP B 610	41.662 28.447 -20.569 1.00 42.30
ATOM	2332 CE3 TRP B 610	70 517 29 272 -19.984 1.00 41.66
ATOM	2333 CD1 TRP B 610	39.517 20 660 -19.941 1.00 40.05
ATOM	2005 GEO MDD B 610	43 037 28.252 -20.780 1.00 44.43
ATOM ATOM	2336 CZ3 TRP B 610	43.080 30.383 -21.932 1.00 44.90
ATOM	2555 GYA MDD B 610	43.725 29.226 -21.460 1.00 45.80
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MOTA	2338	С	TRP B		37.483	28.798		1.00 3		C
MOTA	2339	_	TRP B		38.056 36.542	28.126 28.309		1.00		N
MOTA	2340 2341	N CA	ARG B		36.079	26.931	-21.834	1.00 3	37.82	C
ATOM ATOM	2342		ARG B		34.820	26.728	-20.981	1.00		C
ATOM	2343	CG	ARG B	611	35.041	26.839	-19.471 -19.689	1.00 3		č
MOTA	2344		ARG B		33.802 32.580	26.382 26.850	-19.338	1.00		N
MOTA	2345 2346	NE CZ	ARG B		31.809	27.842	-18.893	1.00	31.48	C
MOTA MOTA	2347	NH1	ARG B		32.107		-17.773	1.00 2		n n
MOTA	2348	NH2	ARG B		30.757	28.229 26.565		1.00		Ċ
MOTA	2349	C	ARG B		35.757 36.079	25.465		1.00	36.80	0
MOTA MOTA	2350 2351	o N	SER B		35.112	27.481	-24.021	1.00		N C
ATOM	2352	CA	SER B	612	34.754	27.197	-25.410 -25.983	1.00		c
ATOM	2353	CB	SER B		33.780 32.614	28.382	-25.195	1.00		0
ATOM ATOM	2354 2355	og C	SER B		36.007	27.204	-26.251	1.00		C
MOTA	2356	ŏ	SER B		36.107		-27.219	1.00		O N
MOTA	2357	N	TYR B		36.965 38.196		-25.876 -26.637	1.00		С
ATOM	2358 2359	CA CB	TYR E		38.984			1.00	36.60	C
ATOM ATOM	2360	CG	TYR E		40.472		-26.447	1.00		C
MOTA	2361	CD1	TYR E		40.982		-27.730 -27.958	1.00		C
ATOM	2362	CE1	TYR E		42.347 41.375		-25.397	1.00	32.42	C
ATOM ATOM	2363 2364	CD2 CE2	TYR E		42.737	29.477	-25.615	1.00		C
ATOM	2365	CZ	TYR E	613	43.217		-26.890 -27.077	1.00	30.85	Ö
ATOM	2366	ОН	TYR E	613	44.568 39.025		-26.423	1.00		C
MOTA MOTA	2367 2368	C O	TYR E		39.742	26.412	-27.312	1.00		O N
ATOM	2369	N	ARG E	3 614	38.911		-25.240		45.97 50.02	C
MOTA	2370	CA	ARG I		39.683 39.932		-24.914 -23.404		53.08	С
ATOM ATOM	2371 2372	CB CG	ARG I	3 614 3 614	41.372	24.854	-22.983		59.25	C
ATOM	2373	CD	ARG I	8 614	41.420	24.331	-21.539 -20.937		63.24 66.86	И
ATOM	2374	NE		B 614	42.753 42.978		-19.629		68.89	С
ATOM ATOM	2375 2376	CZ NH1		B 614 B 614	41.960	24.084	-18.792		68.90	N
ATOM	2377	NH2	ARG I	B 614	44.214	24.344	-19.148		68.99 51.30	и С
MOTA	2378	C		B 614	38.988 39.620		-25.350 -25.569		50.86	O
ATOM ATOM	2379 2380	N O		B 614 B 615	37.679	23.912	-25.508	1.00	53.83	и С
ATOM	2381	ÇA	GLN :	B 615	36.904		-25.872 -25.354	1.00	57.39 57.93	C
MOTA	2382	CB	GLN I		35.484 34.958		-24.575		60.69	С
MOTA MOTA	2383 2384	CG CD		B 615	34.491	20.573	-25.473		63.02	C O
ATOM	2385	OE1	GLN :	B 615	33.643		-26.352 -25.251		63.52 63.10	N
MOTA	2386	NE2		B 615 B 615	35.036 36.889		-23.231		59.23	С
ATOM ATOM	2387 2388	C		B 615	36.807	21.286	-27.766		59.54	о и
ATOM	2389	N	SER	B 616	36.960		-28.176 -29.619		61.23 63.74	Č
ATOM	2390	CA		В 616 В 616	36.952 35.728		-30.043	1.00	63.81	С
ATOM ATOM	2391 2392	CB OG		B 616	35.422	22.621	-31.427		62.76	0 C
ATOM	2393	C	SER	B 616	36.946	_	-30.410 -29.888		65.75 67.02	Ö
MOTA	2394	0	\$ER	B 616 B 617	36.623 37.331		-31.677		67.32	N
MOTA MOTA	2395 2396	N CA	SER	B 617	37.278	25.619	-32.576	1.00		C C
MOTA	2397	CB	SER	в 617	38.232		-33.772 -33.395	1.00	68.50 66.68	Ö
MOTA	2398		SER	В 617 В 617	39.600 35.821	_	-33.049	1.00	69.90	С
MOTA MOTA	2399 2400	C O	SER	B 617	34.884	25.774	-32.281	1.00	70.84	N O
ATOM	2401	N	ALA	в 618	35.636		-34.310 -34.901	1.00	70.39 71.63	C
MOTA	2402		ALA	B 618 B 618	34.306 33.834		-34.724	1.00	71.90	C
MOTA MOTA	2403 2404		ALA	B 618	33.184	25.989	-34.462		71.47	·
MOTA	2405		ALA	B 618	32.023		-34.735		72.45°	N
MOTA	2406	N	ASN	B 619	33.509 32.483		-33.808 -33.369	1.00	69.62	. C
MOTA	2407 2408		ASN ASN	B 619 B 619	31.809	28.694	-34.579	1.00	69.53	· C
ATOM ATOM	2409		ASN	в 619	32.662	29.778	-35.219		69.26 68.76	
MOTA	2410			B 619	32.962 33.036		-34.605 -36.465	1.00	68.22	N
MOTA	2411 2412		ASN ASN	B 619	31.407	27.361	-32.507	1.00	69.11	C
MOTA MOTA	2412		ASN	B 619	30.260	27.230) -32.936 : -31.396		69.60 68.08	
ATOM	2414	N		B 620 B 620	31.772 30.822	_	5 -31.296 9 -30.388			С
MOTA	2415 2416		LEU	B 620	31.174	24.836	5 -30.204	1.00	66.38	_
MOTA MOTA	2417	CG	LEU	B 620	31.505	24.056	5 - 31.481		67.14 66.33	
MOTA	2418	CD	1 LEU	в 620	31.846	22.010	-31.103	1.00		_

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ATOM	2419	CD2	LEU B 62	20	30.339	24.114	-32.466	1.00	66.65 64.65		C
ATOM	2420		LEU B 62	20	30.815	26.997			64.79		Ö
MOTA	2421	0	LEU B 62		31.853	27.418 · 27.109 ·		1.00			N
ATOM	2422	N		21	29.632 29.466	27.728		1.00			C
ATOM	2423 2424	CA CB	LEU B 62		28.170	28.528		1.00			C
ATOM ATOM	2425	CG	LEU B 62		28.302	30.045	-27.187	1.00			C
ATOM	2426		LEU B 62		26.940	30.653		1.00			C
ATOM	2427	CD2	LEU B 62	21	28.853	30.606		1.00			č
ATOM	2428	C	LEU B 62		29.428	26.621 25.885		1.00			ŏ
MOTA	2429	0	•	21	28.446 30.502	26.515		1.00			N
ATOM	2430	N CA	CYS B 63		30.615	25.484		1.00	55.91		С
ATOM ATOM	2431 2432	CB		22	32.061	24.991	-24.278	1.00			C
ATOM	2433	SG	CYS B 6		32.310	23.490		1.00			s C
ATOM	2434	C	CYS B 6		30.168	25.950		1.00			a
MOTA	2435	0	CYS B 6		30.986 28.859	26.306	-22.705	1.00			N
ATOM	2436	N	PHE B 6	23 23	28.324		-21.412	1.00			С
MOTA	2437 2438	CA CB	PHE B 6		26.794		-21.468	1.00			C
ATOM ATOM	2439	CG		23	26.245	27.559	-22.274	1.00			C
ATOM	2440	CD1		23	26.313		-21.790	1.00			c
ATOM	2441	CD2		23	25.657 25.803		-23.512 -22.523	1.00			c
ATOM	2442	CEI	PHE B 6	23	25.146		-24.250		48.22		С
MOTA	2443 2444	CE2	PHE B 6		25.220		-23.752	1.00			C
ATOM ATOM	2445	C	PHE B 6		28.776	25.375	-20.340		50.71		C
ATOM	2446	Ö	PHE B 6	23	29.005		-19.185		49.62		N
ATOM	2447	N	ALA B 6		28.912		-20.752 -19.880		52.33 51.20		Č
ATOM	2448	CA	ALA B 6		29.323 28.228		-18.851	1.00			C
ATOM	2449	CB C	ALA B 6	24	29.580		-20.737		49.80		C
ATOM ATOM	2450 2451	0	ALA B 6		29.115	21.673	-21.867		47.43		0
ATOM	2452	N	PRO B 6		30.335		-20.200		50.48		N C
ATOM	2453	CD	PRO B 6		31.037		-18.910		50.29 51.47		č
ATOM	2454	CA		25	30.658 31.412		-20.913 -19.864		50.00		C
ATOM	2455	CB	PRO B 6	25 25	32.112		-19.124	1.00	50.29		C
ATOM ATOM	2456 2457	CG		25	29.425		-21.414	-	52.60		C
ATOM	2458	ŏ	PRO B 6		29.465		-22.433		52.64		O N
ATOM	2459	N	ASP B 6	26	28.321		-20.699		54.48 55.68		C
ATOM	2460	CA		26	27.102		-21.106 -19.906		56.09		Č
MOTA	2461	CB	ASP B 6	26 26	26.419 25.827		-18.973		57.83		С
ATOM	2462 2463	CG OD1	ASP B 6		26.589		-18.492	1.00	59.45		0
ATOM ATOM	2464	OD2		26	24.606		-18.723		57.98		C
ATOM	2465	C		26	26.116		-21.769		55.93 57.23		ŏ
ATOM	2466	0	ASP B 6		25.035 26.469		-22.143 -21.904		56.56		N
ATOM	2467	N CA		527 527	25.577		-22.514		56.29		C
ATOM ATOM	2468 2469	CB		527	25.000	22.482	-21.457		58.21		C
ATOM	2470	CG	LEU B 6	527	23.984		-21.944		60.16	,**	C
ATOM	2471	CD1			22.827		-22.659		61.47 60.93		č
ATOM	2472	CD2		527 527	23.447 26.325		-20.759 -23.519		55.80		C
ATOM	2473 2474	C		527	26.486		-23.327	1.00	53.30		0
ATOM ATOM	2475	И		528	26.777	21.729	-24.588		57.13		N
ATOM	2476	CA	ILE B 6	528	27.529		-25.637		57.73 57.39		C
ATOM	2477	CB		528	28.703		-26.136 -27.318		56.52		č
MOTA	2478	CG2		528 528	29.412 29.681	27 240	-24.987		57.78		C
MOTA	2479	CG1	ILE B 6		30.802	20.238	-25.325	1.00	58.08		С
ATOM ATOM	2480 2481	CDI	ILE B	628	26.613	22.703	-26.815		58.59		C
MOTA	2482	Ö	ILE B	528	25.978		-27.360		58.15		N O
ATOM	2483	N	ILE B		26.551		-27.197		60.80 63.37		C
MOTA	2484	CA	ILE B		25.734 25.053		-28.321 -28.037		62.21		c
ATOM	2485	CB		629 629	24.305	26.186	-29.260		61.54		C
ATOM ATOM	2486 2487	CG2 CG1		629	24.096	25.566	-26.858	1.00	62.47		C
ATOM	2488	CD1	ILE B	629	23.279	26.817	-26.600	1.00	64.33	ويدر	
ATOM	2489	C	ILE B	629	26.593	24.512	-29.581	1 00 1 00	66.46		C O
MOTA	2490	0		629 630	27.761	24.909	-29.520 -30.716		69.35		Й
MOTA	2491	N		630 630	25.996 26.663	24.157	-32.007		72.68		C
ATOM	2492 2493	CA CB		630	26.511	22.846	-32.740	1.00	72.18		С
MOTA MOTA	2493	CG	••	630	25.121	22.209	-32.559	1.00	73.27		C
ATOM	2495		ASN B	630	24.732		-31.449		75.70		О И
ATOM	2496	ND2	ASN B	630 630	24.382		-33.651 -32.845		72.16 75.25		Ç
MOTA	2497	C	ASN B		26.086 24.988		-32.543		75.67		0
ATOM	2498 2499	O N	GLU B	631	26.842		-33.856		77.89		N
MOTA	6777	•4									

T ITOM	2500	CA	GLU B	631	26.420	26.839 -34.757	1.00 80.23	C
ATOM	2501		GLU B		27.424	27.008 -35.896	1.00 81.87	C
ATOM	2502		GLU B		27.153	28.205 -36.803	1.00 83.99	C
MOTA	2502			631	28.319	29.190 -36.823	1.00 86.23	С
MOTA	2504		GLU B		28.272	30.172 -37.599	1.00 86.92	0
MOTA	2505		GLU B		29.286	28.980 -36.056	1.00 86.94	0
ATOM	2506		GLU B		25.086	26.454 -35.347	1.00 80.90	C
MOTA	2507		GLU B		24.232	27.300 -35.586	1.00 80.99	0
ATOM	2508	-	GLN B		24.940	25.160 -35.602	1.00 82.27	N
MOTA	2509		GLN B		23.712	24.597 -36.146	1.00 83.78	C
ATOM	2510		GLN B		23.855	23.080 -36.311	1.00 85.10	Ċ
ATOM ATOM	2511		GLN B		22.731	22.445 -37.118	1.00 86.62	C
MOTA	2512		GLN B		22.814	22.810 -38.596	1.00 86.39	C
ATOM	2513		GLN B		22.735	23.982 -38.967	1.00 85.70	0
ATOM	2514		GLN B		22.973	21.800 -39.448	1.00 86.18	N
ATOM	2515	C	GLN B		22.577	24.866 -35.164	1.00 83.45	C
ATOM	2516		GLN B		21.692	25.691 -35.394	1.00 82.95	0
ATOM	2517	Ŋ	ARG B		22.628	24.138 -34.061	1.00 83.58	N
ATOM	2518	CA	ARG B		21.637	24.234 -33.013	1.00 84.22	C
ATOM	2519	СВ	ARG B		21.873	23.087 -32.022	1.00 84.51	C
ATOM	2520	CG	ARG B		20.607	22.476 -31.454	1.00 84.22	C
ATOM	2521	CD	ARG B		20.275	23.057 -30.096	1.00 82.62	C
ATOM	2522	NE	ARG B		21.169	22.546 -29.059	1.00 82.17	N
ATOM	2523	CZ	ARG B		21.271	21.262 -28.725	1.00 81.42	C
ATOM	2524	NH1	ARG E		20.535	20.351 -29.350	1.00 81.57	N
ATOM	2525	NH2	ARG E	633	22.096	20.884 -27.755	1.00 79.51	N C
ATOM	2526	С	ARG E	633	21.693	25.591 -32.306	1.00 83.89	0
MOTA	2527	0	ARG E	633	21.086	25.779 -31.259	1.00 83.14	N N
ATOM	2528	N	MET E		22.415	26.539 -32.892	1.00 84.67	C
ATOM	2529	CA	MET E	634	22.543	27.869 -32.312	1.00 85.93	C
MOTA	2530	CB	MET E		23.946	28.414 -32.556		Č
ATOM	2531	CG	MET E		24.508	29.256 -31.426		Š
MOTA	2532	SD	MET E		26.306	29.526 -31.562		Č
MOTA	2533	CE	MET E		26.942	28.268 -30.401		Č
MOTA	2534	C	MET E		21.537	28.752 -33.006		Ŏ
MOTA	2535	0	MET E		21.496	29.962 -32.776		N
ATOM	2536	N	THR E		20.756	28.117 -33.882 28.763 -34.679		Ċ
MOTA	2537	CA	THR E		19.711	28.414 -36.201		C
MOTA	2538	CB	THR I		19.835	27.022 -36.415		Ŏ
MOTA	2539	OG1	THR E		19.562	28.716 -36.713		C
ATOM.	2540	CG2	THR E		21.226 18.342	28.286 -34.193		С
ATOM	2541	C	THR I		17.351	29.009 -34.303		0
MOTA	2542	0	THR I		18.306	27.062 -33.661		N
ATOM	2543	N	LEU E		17.076	26.456 -33.142		С
MOTA	2544	CA CB	LEU I		17.362	25.038 -32.601		С
MOTA	2545 2546	CG	TEO I		16.310	24.416 -31.658		C
ATOM ATOM	2547		LEU I		15.028	24.050 -32.420	1.00 88.28	C
ATOM	2548		LEU I		16.914	23.190 -30.977	1.00 89.01	Ċ
ATOM	2549	C	LEU		16.417	27.300 -32.039	1.00 89.54	C
ATOM	2550	ŏ	LEU I		15.228	27.634 -32.121		0
MOTA	2551	N	PRO I		17.183	27.648 -30.987		N
ATOM	2552	CD	PRO I		18.579	27.249 -30.716		C
ATOM	2553	CA	PRO I		16.654	28.451 -29.878		C
ATOM	2554	CB	PRO 1	B 637	17.885	28.633 -28.975		C
ATOM	2555	CG	PRO 1	в 637	18.670	27.379 -29.215		C C
ATOM	2556	С	PRO I	в 637	16.034	29.794 -30.305		0
MOTA	2557	0	PRO 1		15.636	29.991 -31.454		N
ATOM	2558	N	-	B 638.	15.950	30.714 -29.356		C
ATOM	2559	CA	ASP :		15.388	32.019 -29.631		č
ATOM	2560	CB	ASP I		14.621	32.516 -28.407		Č
ATOM	2561	CG		B 638	13.768	33.725 -28.704		Ö
ATOM	2562		ASP		13.275			Ö
ATOM	2563	OD2		B 638	13.586			c ·
MOTA	2564	С	ASP		16.541			Ō
ATOM	2565	0		B 638	16.493			N
MOTA	2566	N		B 639	17.590			. с
MOTA	2567	CA		B 639	18.754			C
MOTA	2568	CB	MET		19.288 19.161	33.170 -26.855		, C
ATOM	2569	CG	MET		18.358			: · S
MOTA	2570	SD		B 639 B 639	16.698			С
ATOM	2571	CE		B 639	19.873			C
ATOM	2572	C	MET		20.101			0
MOTA	2573	O N		B 640	20.541			N
ATOM	2574	CA		B 640	21.639		1.00 76.46	C
MOTA	2575 2576	CB		B 640	21.105		1.00 78.56	C
ATOM	2577	CG		B 640	21.680		1.00 79.29	C
MOTA MOTA	2578	CD1		B 640	22.759	33.637 -35.079	1.00 80.63	C
MOTA MOTA	2579			B 640	23.363	34.433 -36.070	1.00 79.64	C
ATOM	2580	_		B 640	21.225		1.00 79.41	С
AI OF	2300		- -					

ATOM	2581		TYR I			21.827	36.211	-35.554 -36.284	1.00 79.02	
MOTA	2582	CZ OH	TYR I			22.914 23.568		-37.222	1.00 77.50	0
ATOM ATOM	2583 2584	C	TYR :		640	22.352	35.025	-31.935	1.00 73.93	_
ATOM	2585	Ö	TYR 3	В		23.552	35.095	-32.138	1.00 72.84 1.00 72.93	
ATOM	2586	N	ASP :			21.563 22.037	36.092	-31.839 -31.905	1.00 72.5	
ATOM	2587 2588	CA CB	ASP I			20.833	38.397	-32.152	1.00 72.5	1 C
atom atom	2589	CG			641	19.554	37.894	-31.458	1.00 73.3	
ATOM	2590		ASP :			19.011		-31.899	1.00 73.13 1.00 73.23	
MOTA	2591				641	19.090 22.710		-30.469 -30.563	1.00 72.0	
MOTA	2592 2593	C O	ASP :		641	23.109		-30.348	1.00 73.3	0
ATOM ATOM	2594	N			642	22.819	36.855	-29.664	1.00 71.0	-
ATOM	2595	CA			642	23.424		-28.349	1.00 69.1 1.00 69.4	_
ATOM	2596	CB	GLN			22.350 22.488		-27.254 -26.151	1.00 70.5	. C
ATOM ATOM	2597 2598	CG CD	GLN :		642	22.355	39.517	-26.658	1.00 71.3	3 C
ATOM	2599	OE1	GLN			23.186		-27.430	1.00 71.8	
MOTA	2600	NE2	GLN			21.309		-26.208 -28.145	1.00 69.4 1.00 67.9	_
ATOM	2601	C O	GLN GLN			24.458 25.312		-27.257	1.00 66.0	3 0
ATOM ATOM	2602 2603	N	CYS			24.351	34.935	-28.973	1.00 68.2	_
ATOM	2604	CA	CYS	В	643	25.289		-28.916	1.00 67.7 1.00 67.1	
MOTA	2605	CB			643	24.697 23.807		-29.591 -28.506	1.00 65.5	ı S
ATOM ATOM	2606 2607	SG C	CYS			26.591		-29.622	1.00 67.4	
ATOM	2608	ŏ		В	643	27.687		-29.206	1.00 67.8	
ATOM	2609	N	LYS			26.473		-30.691 -31.405	1.00 66.3 1.00 66.4	-
ATOM	2610 2611	CA CB	LYS			27.651 27.273		-32.794	1.00 67.8	0 C
ATOM ATOM	2612	CG		В		26.132	36.990	-32.792	1.00 70.4	_
ATOM	2613	CD	LYS			25.979		-34.151 -34.214	1.00 71.2 1.00 71.6	_
ATOM	2614	CE	LYS LYS		644 644	24.708 24.599		-33.060	1.00 71.5	7 N
ATOM ATOM	2615 2616	NZ C	ГZS			28.348	36.526	-30.596	1.00 65.6	
ATOM	2617	O	LYS	В	644	29.525		-30.809	1.00 66.3 1.00 63.9	
MOTA	2618	N	HIS		645	27.618 28.202		-29.663 -28.829	1.00 61.7	1 C
ATOM ATOM	2619 2620	CA CB	HIS HIS		645	27.128	38.992	-28.100	1.00 62.4	2 C
MOTA	2621	CG	HIS	В	645	26.749		-28.800	1.00 63.2 1.00 62.8	
MOTA	2622	CD2	HIS		645	27.289 25.703		-28.748 -29.696	1.00 62.8	
ATOM ATOM	2623 2624	ND1 CE1			645 645	25.617		-30.164	1.00 62.8	9 C
ATOM	2625	NE2	HIS		645	26.569		-29.604	1.00 62.4	
ATOM	2626	С	HIS		645	29.071		-27.808 -27.341	1.00 59.8 1.00 60.4	_
MOTA	2627 2628	И О	HIS MET	B	645 646	30.061 28.680		-27.461	1.00 57.5	0 N
ATOM ATOM	2629	CA	MET		646	29.420	35.446	-26.499	1.00 55.4	
ATOM	2630	CB		В	646	28.482		-25.781 -24.590	1.00 53.0 1.00 52.5	_
ATOM	2631	CG SD		B B	646 646	27.734 26.119		-24.224	1.00 52.5	3 \$
ATOM ATOM	2632 2633	CE		В	646	26.470	32.670	-24.391	1.00 49.5	_
ATOM	2634	C	MET		646	30.516		-27.214	1.00 54.2 1.00 53.8	
ATOM	2635	0	MET	B B	646 647	31.552 30.275		-26.631 -28.484	1.00 53.7	
ATOM ATOM	2636 2637	N CA	LEU		647	31.229	33.597	-29.296	1.00 53.2	
ATOM	2638	CB	LEU	В	647	30.530		-30.559	1.00 53.5 1.00 56.1	
ATOM	2639	CG	LEU			31.186 31.594		-31.230 -30.166	1.00 54.6	_
ATOM	2640 2641	CD1	LEU		647	30.217		-32.287	1.00 56.0	13 C
ATOM ATOM	2642	C			647	32.444	34.469	-29.643	1.00 51.3	
ATOM	2643	0	LEU			33.526	33.972	-29.972	1.00 50.7 1.00 49.0	79 O 18 N
ATOM	2644	N CA	TYR		648 648	32.244 33.290	36.753	-29.546 -29.821	1.00 46.3	.5 C
MOTA MOTA	2645 2646	CB	TYR			32.739	38.177	-29.628	1.00 44.4	_
ATOM	2647	CG	TYR	B	648	33.800		-29.648	1.00 44.3	
MOTA	2648	CD1			648	34.427 35.445	39.665	-30.850 -30.864		· ·
MOTA MOTA	2649 2650	CE1				34.211	39.879	-28.467	1.00 40.8	88 C
MOTA	2651	CE2	TYR	В	648	35.216	40.844	-28.469	1.00 41.8	35 . C
ATOM	2652	CZ	TYR			35.831 36.846	41.217	-29.665 -29.643	1.00 42.	_
ATOM	2653	C	TYR TYR		648 648	36.846 34.486	36.539	-28.885	1.00 45.2	20 C
ATOM ATOM	2654 2655	0			648	35.639	36.476	-29.322	1.00 45.8	38 0
ATOM	2656	N	VAL	B	649	34.184		-27.595 -26.557	1.00 42.5 1.00 39.8	_
ATOM	2657	CA	VAL			35.186 34.515		-26.557 -25.165		52 C
atom atom	2658 2659	CB CG1	LAV LAV			35.572	35.930	-24.063	1.00 37.3	LO C
ATOM	2660	CG2	VAL	В	649	33.574	37.257	-24.895	1.00 36.	
MOTA	2661	С	VAL	В	649	36.093	35.063	-26.832	1.00 39.	0

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ATOM	2662	0	VAL			37.309			00 38.15 00 39.42	N O
MOTA	2663	N	SER			35.499 36.258			00 39.42	Č
MOTA	2664 2665	CA CB	SER SER			35.323			00 41.64	С
ATOM ATOM	2666	OG	SER		650	34.521	31.511 -28.	529 1.	00 45.37	0
ATOM	2667	C	SER		650	37.031	_		00 37.84	C 0
ATOM	2668	0	SER			38.188			00 35.43 00 38.33	N
ATOM	2669	N	SER			36.377 37.045			00 40.70	C
MOTA	2670 2671	CA CB	SER SER		651 651	36.075			00 38.67	С
ATOM ATOM	2672	OG	SER			35.935		865 1.	00 34.66	0
ATOM	2673	C	SER	В	651	38.248		-	00 41.37	O C
MOTA	2674	0			651	39.321			00 42.71 00 41.39	N
MOTA	2675	N	GLU GLU		652	38.073 39.145			00 42.69	C
ATOM ATOM	2676 2677	CA CB	GLU		652	38.577		244 1.	00 45.39	С
ATOM	2678	CG			652	39.510	38.843 -29.		00 49.81	C
ATOM	2679	CD	GLU			39.373			00 51.55	C 0
ATOM	2680	OE1	GLU		652	39.472			00 52.18 00 53.67	ő
ATOM	2681	OE2			652 652	39.177 40.221		• •	00 42.43	С
ATOM ATOM	2682 2683	C O			652	41.402		053 1.	00 41.00	0
ATOM	2684	N			653	39.785	34.821 -28.		00 43.94	N C
MOTA	2685	CA	LEU		653	40.657			00 43.80 00 43.71	
ATOM	2686	CB	-		653	39.849 40.356			00 43.71	C
MOTA	2687 2688	CG CD1	LEU		653 653	40.880			00 43.61	С
MOTA MOTA	2689		LEU			39.229		687 1.	00 42.40	C
ATOM	2690	C	LEU	В	653	41.431			00 45.28	C O
ATOM	2691	0			653	42.364			00 46.52 00 47.62	И
ATOM	2692	N	HIS	B	654 654	41.043 41.728			00 48.56	С
ATOM ATOM	2693 2694	CA CB			654	40.722			00 50.40	C
ATOM	2695	CG	HIS		654	41.341			00 54.61	C
ATOM	2696		HIS			41.106		•	00 55.49 00 56.90	C N
MOTA	2697	ND1				42.301 42.616			00 56.42	Ċ
ATOM	2698 2699	CE1			654 654	41.905			00 56.34	N
MOTA MOTA	2700	C	HIS			42.620	32.747 -31.	043 1.	00 48.69	C
ATOM	2701	Ō	HIS	В	654	43.753			00 50.44	O N
ATOM	2702	N	ARG			42.118			00 49.01	C
ATOM	2703	CA	ARG ARG			42.916 42.086			00 50.47	С
MOTA MOTA	2704 2705	CB CG	ARG			42.804			00 51.60	C
ATOM	2706	CD	ARG			41.968		-	00 54.12	C
ATOM	2707	NE			655	41.767			00 55.67	N C
ATOM	2708	CZ	ARG			42.714 43.954			00 51.57	Ŋ
ATOM	2709 2710	NH1	ARG ARG			42.417		129 1.	00 54.98	Ŋ
ATOM ATOM	2711	C	ARG			44.12	35.233 -31.	770 1.	00 52.14	C
ATOM	2712	0	ARG	В	655	44.893			00 54.32	N O
ATOM	2713	N	LEU			44.26	_		00 52.33	Č
MOTA	2714	CA CB	LEU			45.348 44.778			00 51.78	C
ATOM ATOM	2715 2716	CG	LEU			45.43		.600 1.	.00 52.87	C
ATOM	2717	CD1				45.26			.00 52.07	C
ATOM	2718	CD2				44.810			00 54.04	C
ATOM	2719	C	LEU			46.10 47.14			.00 48.30	Ö
ATOM ATOM	2720 2721	N O	LEU			45.55		.039 1	00 51.46	N
ATOM	2722	CA	GLN			46.15	31.959 -28.	.427 1	.00 51.98	C
ATOM	2723	CB	GLN	B	657	47.36	31.505 -29		.00 53.79 .00 56.75	C
MOTA	2724	CG			657	47.029 45.98			.00 59.34	č
ATOM	2725 2726	CD OE1			657 657	45.98			00 62.61	0
atom Atom	2727	NE2			657	45.10	30.012 -31.	.731 1	.00 59.21	Ŋ
MOTA	2728	C	GLN	В	657	46.60	32.222 -26.	.991 1	.00 51.01	C
ATOM	2729	0			657	47.75			.00 50.48 .00 50.02	И О
ATOM	2730	N			658	45.69° 46.00°		.150 I	.00 48.47	C
ATOM	2731 2732	CA CB			658 658	44.82			.00 48.02	. С
ATOM ATOM	2732				658	45.15	34.137 -22.	.677 1	.00 48.35	С
MOTA	2734		VAL	В	658	44.47	35.017 -24	.880 1	.00 48.77	C
ATOM	2735	C			658	46.34		.950 l	.00 47.82 .00 47.54	C
ATOM	2736	0			658	45.78° 47.27°			.00 46.58	N
ATOM	2737 2738	N CA			659 659	47.66			.00 45.81	С
ATOM ATOM	2739	CB			659	49.12	31.010 -21	.779 1	.00 44.36	C
ATOM	2740	OG	SER	B	659	49.29	00	.794 1	.00 46.05	0 C
MOTA	2741	C			659	46.79		.900 1	.00 45.03 .00 46.89	0
MOTA	2742	0	SER	K B	659	46.22	21.000 20			•

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MOTA	2743		TYR B		•	29.642 -20.284 29.515 -19.072	1.00 42.36 1.00 40.06	C
MOTA	2744		TYR B		45.909 45.987	28.073 -18.583	1.00 35.16	C
MOTA MOTA	2745 2746			660	45.119	27.782 -17.404	1.00 34.25	C C
ATOM	2747	CD1	TYR B	660	43.737	27.682 -17.537	1.00 34.26 1.00 31.88	č
MOTA	2748		TYR B		42.928 45.671	27.445 -16.437 27.641 -16.143	1.00 35.32	С
ATOM	2749		TYR B		44.884	27.408 -15.049	1.00 35.32	C
ATOM ATOM	2750 2751	-	TYR B		43.522	27.301 -15.194	1.00 35.06	C O
ATOM	2752	OH	TYR B	660	42.800	26.927 -14.082 30.472 -17.988	1.00 38.69 1.00 40.46	Ċ
MOTA	2753	C	TYR B		46.436 45.702	30.472 -17.300	1.00 40.44	0
ATOM ATOM	2754 2755	N O	TYR B GLU B	661	47.720	30.779 -18.067	1.00 40.64	N C
ATOM	2756	CA	GLU B	661	48.348	31.627 -17.065	1.00 40.67 1.00 42.52	č
MOTA	2757	CB	GLU B		49.869 50.673	31.532 -17.211 31.573 -15.914	1.00 45.10	С
MOTA	2758 2759	CG CD	GLU B		51.123	30.188 -15.451	1.00 47.65	C
ATOM ATOM	2760	OE1	GLU B	661	51.612	29.401 -16.283	1.00 50.09 1.00 50.91	0
ATOM	2761	OE2	GLU B	661	51.005	29.875 -14.248 33.055 -17.274	1.00 30.51	С
ATOM	2762	C	GLU B		47.891 47.596	33.793 -16.319	1.00 38.55	0
MOTA MOTA	2763 2764	Ŋ	GLU B		47.830	33.429 -18.549	1.00 37.34 1.00 35.02	n C
ATOM	2765	CA	GLU B		47.417	34.770 -18.926 35.038 -20.405		Ċ
MOTA	2766	CB	GLU B	662 662	47.697 49.172	35.134 -20.751	1.00 34.64	C
ATOM ATOM	2767 2768	CG CD	GLU B		49.419	35.362 -22.228	1.00 33.70	C O
ATOM	2769	OE1	GLU B	662	48.596	34.910 -23.063 35.987 -22.565	1.00 35.83 1.00 32.73	ŏ
MOTA	2770	OE2	GLU B		50.443 45.948	35.987 -22.565 34.963 -18.631	1.00 33.94	C
ATOM	2771 2772	C O	GLU B		45.572	35.954 -18.022	1.00 32.84	O N
ATOM ATOM	2773	N	TYR B	663	45.125	34.026 -19.086	1.00 33.57 1.00 33.61	N C
ATOM	2774	CA	TYR B		43.689 43.103	34.046 -18.837 32.722 -19.275		C
ATOM	2775 2776	CB CG	TYR B		41.748	32.449 -18.699	1.00 36.58	C
ATOM ATOM	2777	CD1	TYR B	663	40.632	33.111 -19.178 32.846 -18.678		č
MOTA	2778	CE1	TYR B		39.362 41.574	31.497 -17.691	1.00 38.25	C
ATOM ATOM	2779 2780	CD2 CE2			40.306	31.218 -17.177	1.00 39.81	C
ATOM	2781	CZ	TYR B	663	39.202	31.896 -17.684 31.605 -17.192		ŏ
MOTA	2782	OH	TYR B		37.941 43.359	34.251 -17.344	1.00 35.30	C
MOTA MOTA	2783 2784	C O	TYR B		42.456	35.018 -16.999	1.00 35.91	N O
ATOM	2785	N	LEU B	664	44.071	33.559 -16.457 33.672 -15.044	1.00 34.37 1.00 33.71	C
MOTA	2786	CA	LEU B		43.771 44.586	32.678 -14.204	1.00 35.67	C
ATOM ATOM	2787 2788	CB CG	LEU B		44.274	31.191 -14.402	1.00 37.86	C
ATOM	2789	CD1			44.993	30.346 -13.354 30.961 -14.272		С
ATOM	2790	CD2	LEU E	3 664 3 664	42.783 44.009	35.072 -14.547	1.00 33.05	C
MOTA MOTA	2791 2792	Ö	LEU E		43.243	35.589 -13.736		O N
ATOM	2793	N	CYS E		45.066 45.376	35.704 -15.037 37.063 -14.608		С
ATOM	2794 2795	CA CB	CYS E		45.376	37.431 -15.019	1.00 38.91	C S
ATOM ATOM	2796	SG	CYS E	3 665	48.089	36.514 -14.119		C
ATOM	2797	C	CYS F		44.374 43.915	38.027 -15.223 38.977 -14.575		0
MOTA	2798 2799	O N	CYS I		44.023	37.764 -16.473	3 1.00 33.38	N
ATOM ATOM	2800	CA	MET I	3 666	43.065	38.601 -17.159		C
MOTA	2801	CB	MET I	_	42.874 43.757	38.109 -18.603 38.868 -19.59	1.00 36.03	С
MOTA	2802 2803	CG SD	MET I		44.235	37.853 -20.983	1 1.00 39.44	s C
MOTA MOTA	2804	CE	MET I	в 666	43.086	38.392 -22.25		c
ATOM	2805	C	MET I		41.721 41.159	38.651 -16.433 39.732 -16.20		0
MOTA	2806 2807	N O	MET I		41.231	37.477 -16.04	2 1.00 33.02	N C
MOTA MOTA	2808	CA	LYS 1	в 667	39.961	15	5 1.00 30.40 9 1.00 26.85	č
MOTA	2809			B 667	39.585 38:188		_	С
MOTA	2810 2811			в 667 в 667	37.557	34.370 -15.05	3 1.00 24.73	C
atom Atom	2812		LYS	в 667	38.358	33.144 -14.59	2 1.00 28.75 9 1.00 32.27	Ŋ
MOTA	2813			B 667	38.543 40.020		5 1.00 32.34	С
ATOM	2814 2815		LYS :	в 667 в 667	39.021	38.615 -13.56	8 1.00 32.45	O N
ATOM ATOM	2816		THR	в 668	41.192	38.168 -13.42	8 1.00 34.00 4 1.00 37.50	C
ATOM	2817	CA		B 668	41.271 42.598			С
ATOM	2818 2819			в 668 в 668	42.790	37.107 -11.43	8 1.00 41.04	0 C
ATOM ATOM	2820		2 THR	в 668	42.586	39.021 -10.00		c
ATOM	2821	. С	THR		41.168 40.619			. 0
atom atom	2822 2823		THR LEU	в 668 в 669	41.706	10 50		Ŋ
ATOM		, 61						

MOTA	2824		LEU B		41.660	42.213 - 42.548 -	-13.849 -15 016	1.00 40.11 1.00 36.75	C
ATOM	2825 2826		LEU B		42.588 44.087	42.340	-14.680	1.00 35.03	C
ATOM ATOM	2827		LEU B		44.905	42.757 -	-15.932	1.00 33.77	C C
ATOM	2828		LEU B		44.433	43.490 -	-13.578 -14 173	1.00 31.17 1.00 41.21	c
ATOM	2829	C		669 669	40.268 40.021	43.911		1.00 41.41	0
ATOM ATOM	2830 2831	O N	LEU B		39.384	41.786	-14.573	1.00 43.02	N
ATOM	2832	CA	LEU B	670	37.990	42.077		1.00 43.24 1.00 43.02	C
ATOM	2833	CB	LEU B		37.367 37.811	40.939	-13.736 -17.222	1.00 42.54	С
ATOM ATOM	2834 2835	CG CD1	LEU B		37.259	39.524	-17.828	1.00 42.23	C
ATOM	2836	CD2	LEU B	670	37.346	41.998		1.00 41.18 1.00 45.86	C
ATOM	2837	C		670 670	37.223 36.261	42.227		1.00 45.76	0
ATOM ATOM	2838 2839	N N		671	37.644	41.495	-12.616	1.00 50.30	N C
MOTA	2840	ÇA	LEU B	671	36.995	41.578		1.00 53.42 1.00 52.34	C
ATOM	2841	CB	LEU B		37.411 37.011	40.385		1.00 52.06	С
ATOM ATOM	2842 2843	CG CD1	LEU B		38.078	40.947	-8.139	1.00 51.65	C
ATOM	2844		LEU B	671	35.621	40.881 42.891		1.00 51.52 1.00 55.91	C
ATOM	2845	C	LEU B	671 671	37.399 36.706	43.395		1.00 58.42	0
ATOM ATOM	2846 2847	O N	PEO B		38.520	43.451	-11.094	1.00 57.72	N C
ATOM	2848	CA	LEU B	672	39.007	44.697 44.474	-10.534 -9.914	1.00 60.64 1.00 59.13	C
ATOM	2849	CB CG	LEU B	672 672	40.396 40.509	43.465	-8.760	1.00 58.29	С
MOTA MOTA	2850 2851	CD1	LEU B		41.968	43.192	-8.448	1.00 56.71	C C
ATOM	2852	CD2	LEU B	672	39.807	43.996 45.778	-7.527 -11 615	1.00 57.39 1.00 63.78	č
MOTA	2853	С 0	LEU B		39.077 39.993	46.596	-11.626	1.00 65.19	0
MOTA MOTA	2854 2855	N	SER B		38.114	45.795	-12.526	1.00 65.98	Й
MOTA	2856	CA	SER B	_	38.141	46.792	-13.580 -14.954	1.00 69.27 1.00 69.42	Č
ATOM	2857 2858	CB OG	SER E		37.933 39.131		-15.721	1.00 69.82	0
MOTA MOTA	2859	C	SER E		37.088	47.855	-13.373	1.00 72.33	C
ATOM	2860	0	SER E		37.402		-13.364 -13.198	1.00 73.41 1.00 75.19	N
ATOM	2861	N CA	SER E		35.839 34.702		-13.130	1.00 76.80	C
ATOM ATOM	2862 2863	CB	SER E		33.370	47.543	-12.901	1.00 75.62	C 0
ATOM	2864	OG	SER E		33.001		-14.112 -11.787	1.00 72.45 1.00 78.39	C
ATOM	2865 2866	C	SER E		34.869 34.439		-10.683	1.00 78.32	0
ATOM ATOM	2867	N	VAL E	675	35.497	50.389	-12.002	1.00 81.36	И С
ATOM	2868	CA	VAL E		35.718 37.214		-10.937 -10.803	1.00 84.09 1.00 83.41	Č
MOTA ATOM	2869 2870	CB CG1	VAL E		37.437	52.536	-9.556	1.00 83.08	C
ATOM	2871	CG2	VAL E	675	38.052		-10.776	1.00 83.54 1.00 86.77	C
MOTA	2872	C	VAL		34.952 35.313		-11.322 -12.291	1.00 86.70	ō
ATOM ATOM	2873 2874	о И	VAL PRO P		33.881	52.961	-10.574	1.00 89.01	N
ATOM	2875	CD	PRO I	3 676	33.445	52.273	-9.341 -10.830	1.00 89.61 1.00 90.12	C
ATOM	2876	CA	PRO I		33.049 32.322	54.144		1.00 90.27	С
ATOM ATOM	2877 2878	CB	PRO I	_	32.096	52.930	-9.049	1.00 90.65	C C
ATOM	2879	C	PRO I	676	33.870		-11.240 -12.338	1.00 91.53 1.00 91.55	0
MOTA	2880 2881	N O	PRO I	8 676 8 677	34.426 33.940		-10.359	1.00 92.72	N
ATOM ATOM	2882	CA		B 677	34.707	57.584	-10.624	1.00 93.01	C
MOTA	2883	CB		B 677	34.321 35.503		-11.978 -12.828	1.00 92.69 1.00 91.56	Č
MOTA MOTA	2884 2885	CG CD	LYS	B 677	36.323		-13.375	1.00 90.47	C
ATOM	2886	CE	LYS I	в 677	37.296		-12.351	1.00 89.38	C N
MOTA	2887	NZ		B 677	37.912 34.484	55.657	-12.851 -9.518	1.00 88.22 1.00 93.62	C
MOTA MOTA	2888 2889	C	LYS T	В 677 В 677	33.714	59.559	-9.683	1.00 93.74	0
ATOM	2890	N		в 678	35.176	58.412	-8.398	1.00 93.58	, С И
ATOM	2891	CA	ASP		35.102 33.654	59.289 59.377	-7.229 -6.722	1.00 93.29 1.00 93.58	С
ATOM ·	2892 2893	CB CG	ASP :	B 678 B 678	33.654	60.485	-5.704	1.00 93.66	C
ATOM .	2894	OD1	ASP :	B 678	34.244	60.553	-4.737	1.00 93.44	0
MOTA	2895	OD2		B 678	32.495 35.997	61.282 58.686	-5.873 -6.139	1.00 93.48 1.00 92.73	С
ATOM ATOM	2896 2897	. o		B 678 B 678	35.557	59.402	-5.324	1.00 92.55	0
ATOM	2898	Ŋ	GLY	B 679	36.081	57.356			N C
MOTA	2899	CA		B 679	36.886 36.092	56.634 55.721			С
ATOM ATOM	2900 2901	C O		В 679 В 679	35.310	56.177	-3.428	1.00 88.73	0
MOTA	2902	И	LEU	B 680	36.287	54.419			N C
ATOM	2903		LEU		35.636 36.148	53.429 52.042			Č
MOTA	2904	CB	μEÜ	в 680	20.140	J4.V14	2.20.		

									c
ATOM	2905		LEU B		36.078	51.693	-5.451 -5.684	1.00 80.77 1.00 80.19	C
ATOM	2906		LEU B		36.837 34.622	50.407 51.551	-5.904	1.00 80.14	С
ATOM ATOM	2907 2908		LEU B LEU B		36.052	53.748	-2.159	1.00 80.99	C 0
ATOM	2909	_	LEU B	680	36.985	54.527	-1.940	1.00 80.94 1.00 78.52	Ŋ
ATOM	2910		LYS B		35.375 35.715	53.146 53.365	-1.187 0.216	1.00 75.95	С
MOTA	2911 2912		LYS B		34.915	52.405	1.113	1.00 77.03	C
ATOM ATOM	2912		LYS B		33.607	52.968	1.681	1.00 76.21	C C
ATOM	2914		LYS B		32.524	53.061 53.644	0.627 1.201	1.00 76.59 1.00 75.88	Č
ATOM	2915		LYS B		31.235 30.669	52.814	2.310	1.00 75.97	N
ATOM ATOM	2916 2917		LYS B		37.227	53.174	0.461	1.00 74.41	C 0
ATOM	2918		LYS B	681	37.831	53.853	1.299 -0.269	1.00 74.01 1.00 71.90	Ŋ
ATOM	2919	N	SER B		37.835 39.262	52.248 51.999	-0.127	1.00 69.01	C
ATOM ATOM	2920 2921	CA CB	SER E		39.508	50.656	0.569	1.00 68.35	C 0
MOTA	2922	OG	SER E	682	38.556	49.683	0.177 -1.496	1.00 66.36 1.00 67.66	Č
MOTA	2923	C	SER E		39.918 40.363	52.016 50.987	-1.995	1.00 65.82	0
ATOM ATOM	2924 2925	N O	SER E		39.980	53.201	-2.093	1.00 67.49	N C
ATOM	2926	CA	GLN E	683	40.569	53.355	-3.412	1.00 67.81 1.00 68.53	c
MOTA	2927	CB	GLN F		40.411 40.970	54.797 55.027	-3.886 -5.273	1.00 70.80	С
ATOM	2928 2929	CG CD	GLN F		40.128	54.387	-6.370	1.00 72.28	C
MOTA MOTA	2930	OE1	GLN I		40.627	54.103	-7.464	1.00 72.28 1.00 72.75	O N
ATOM	2931	NE2	GLN E		38.844 42.043	54.174 52.960	~6.091 -3.401	1.00 67.05	C
MOTA	2932	C O	GLN H		42.481	52.145	-4.212	1.00 67.17	0
ATOM ATOM	2933 2934	И		B 684	42.800	53.536	-2.472	1.00 66.35	n C
ATOM	2935	CA	GLU I		44.228	53.249 53.843	-2.334 -1.014	1.00 65.00 1.00 66.56	Č
ATOM	2936	CB	GLU I	B 684 . B 684	44.749 43.689	54.587	-0.160	1.00 68.85	C
ATOM ATOM	2937 2938	CG CD	GLU I	_	42.691	53.665	0.565	1.00 69.98	C 0
MOTA	2939	OE1	GLU I		41.591	54.153 52.471	0.920 0.792	1.00 71.06 1.00 69.24	ŏ
MOTA	2940	OE2		B 684 B 684	43.005 44.479	51.727	-2.382	1.00 64.38	C
ATOM ATOM	2941 2942	C	GTO 1		45.092	51.211	-3.327	1.00 63.15	0 N
ATOM	2943	N	LEU	B 685	44.013	51.012 49.556	-1.361 -1.316	1.00 63.00 1.00 62.80	c
ATOM	2944	CA	LEU !	B 685 B 685	44.151 43.226	48.970	-0.246	1.00 65.40	C
MOTA MOTA	2945 2946	CB CG	LEU		43.819	48.675	1.129	1.00 68.11	C
ATOM	2947	CD1	LEU :	в 685	44.163	49.985	1.854 1.919	1.00 67.89 1.00 69.46	č
MOTA	2948	CD2		B 685 B 685	42.811 43.817	47.825 48.905	-2.675	1.00 61.26	C
MOTA MOTA	2949 2950	C	LEU :		44.556	48.043	-3.162	1.00 60.65	O N
ATOM	2951	N	PHE	в 686	42.696	49.313	-3.272 -4.565	1.00 58.66 1.00 56.31	C
MOTA	2952	CA	PHE		42.254 40.968	48.776 49.482	-5.019	1.00 51.82	С
ATOM ATOM	2953 2954	CB CG	PHE		40.427	48.970	-6.316	1.00 48.12	C
ATOM	2955	CD1	PHE	B 686	39.563	47.884	-6.341 -7.518	1.00 46.69 1.00 46.24	C
MOTA	2956	CD2			40.818 39.098	49.539 47.371	-7.531	1.00 44.49	C
ATOM ATOM	2957 2958	CE1			40.357	49.029	-8.714	1.00 44.19	C
ATOM	2959	CZ	PHE	B 686	39.496	47.939 48.959	-8.718 -5.627	1.00 45.12 1.00 56.54	Ċ
MOTA	2960	C	PHE PHE	В 686 В 686	43.342 43.717	48.016	-6.327	1.00 55.25	0
ATOM ATOM	2961 2962	O N	ASP		43.844	50.185	-5.729	1.00 58.32	N C
ATOM	2963	CA	ASP	B 687	44.891	50.517 51.986	-6.685 -6.545	1.00 59.23 1.00 60.79	Č
ATOM	2964	CB		B 687 B 687	45.294 44.691	52.840	-7.627	1.00 63.39	C
ATOM ATOM	2965 2966	CG OD1		B 687	43.465	52.701	-7.831	1.00 65.82	0
ATOM	2967		ASP	B 687	45.426		-8.272 -6.574		C
ATOM	2968	C	ASP		46.126 46.797		-7.569		0
ATOM	2969 2970	O N	ASP GLU	B 687 B 688	46.423	49.153	-5.368	1.00 58.75	N C
ATOM ATOM	2971	CA	GLU	B 688	47.580		-5.157		C
MOTA	2972		GLU		47.944 48.286		-3.674 -3.074		C
ATOM	2973 2974	CG	GTA GTA		48.970			1.00 65.67	C
ATOM ATOM	2975	OE1		B 688	49.168	50.534			0
ATOM	2976	OE2	GLU	B 688	49.316 47.281		-1.323 -5.650		С
ATOM	2977	С 0		B 688	48.010			1.00 58.19	0
MOTA MOTA	2978 2979		ILE		46.198	46.301	-5.144	1.00 56.21	и С
ATOM	2980	CA	ILE	B 689	45.815				С
ATOM	2981			B 689 B 689	44.423 44.045			1.00 52.44	С
MOTA	2982 2983				44.458	44.713	-3.422	1.00 53.65	C
MOTA MOTA	2984	CD:	1 ILE	B 689	43.154		_		C
ATOM	2985	С	ILE	B 689	45.759	44.864	-7.055	. 1.00 33.3	

ATOM 2986 O ILE B 689	88 N 49 C 39 C 70 C 18 C 73 N 87 C 72 N
ATOM 2988 CA ARG B 690 44.919 45.805 -9.116 1.00 51. ATOM 2989 CB ARG B 690 44.034 46.978 -9.536 1.00 52. ATOM 2990 CG ARG B 690 44.189 47.381 -10.998 1.00 54. ATOM 2991 CD ARG B 690 43.085 48.326 -11.493 1.00 56. ATOM 2992 NE ARG B 690 42.174 47.640 -12.411 1.00 57. ATOM 2993 CZ ARG B 690 42.289 47.659 -13.735 1.00 57. ATOM 2994 NH1 ARG B 690 43.274 48.345 -14.295 1.00 57. ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	49 C 39 C 70 C 18 C 73 N 87 C 72 N
ATOM 2989 CB ARG B 690 44.034 46.978 -9.536 1.00 52. ATOM 2990 CG ARG B 690 44.189 47.381 -10.998 1.00 54. ATOM 2991 CD ARG B 690 43.085 48.326 -11.493 1.00 56. ATOM 2992 NE ARG B 690 42.174 47.640 -12.411 1.00 57. ATOM 2993 CZ ARG B 690 42.289 47.659 -13.735 1.00 57. ATOM 2994 NH1 ARG B 690 43.274 48.345 -14.295 1.00 57. ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	39 C 70 C 18 C 73 N 87 C 72 N
ATOM 2990 CG ARG B 690 44.189 47.381 -10.998 1.00 54. ATOM 2991 CD ARG B 690 43.085 48.326 -11.493 1.00 56. ATOM 2992 NE ARG B 690 42.174 47.640 -12.411 1.00 57. ATOM 2993 CZ ARG B 690 42.289 47.659 -13.735 1.00 57. ATOM 2994 NH1 ARG B 690 43.274 48.345 -14.295 1.00 57. ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	70 C 18 C 73 N 87 C 72 N
ATOM 2991 CD ARG B 690 44.189 47.381 -10.998 1.00 54. ATOM 2991 CD ARG B 690 43.085 48.326 -11.493 1.00 56. ATOM 2992 NE ARG B 690 42.174 47.640 -12.411 1.00 57. ATOM 2993 CZ ARG B 690 42.289 47.659 -13.735 1.00 57. ATOM 2994 NH1 ARG B 690 43.274 48.345 -14.295 1.00 57. ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	18 C 73 N 87 C 72 N 50 N
ATOM 2991 CD ARG B 690 43.085 48.326 -11.493 1.00 56. ATOM 2992 NE ARG B 690 42.174 47.640 -12.411 1.00 57. ATOM 2993 CZ ARG B 690 42.289 47.659 -13.735 1.00 57. ATOM 2994 NH1 ARG B 690 43.274 48.345 -14.295 1.00 57. ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	73 N 87 C 72 N 50 N
ATOM 2992 NE ARG B 690 42.174 47.640 -12.411 1.00 57. ATOM 2993 CZ ARG B 690 42.289 47.659 -13.735 1.00 57. ATOM 2994 NH1 ARG B 690 43.274 48.345 -14.295 1.00 57. ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	87 C 72 N 50 N
ATOM 2993 CZ ARG B 690 42.289 47.659 -13.735 1.00 57. ATOM 2994 NH1 ARG B 690 43.274 48.345 -14.295 1.00 57. ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	72 N 50 N
ATOM 2994 NH1 ARG B 690 43.274 48.345 -14.295 1.00 57. ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	50 N
ATOM 2995 NH2 ARG B 690 41.441 46.972 -14.494 1.00 56. ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	
ATOM 2996 C ARG B 690 46.271 45.869 -9.821 1.00 51. ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	68 C
ATOM 2997 O ARG B 690 46.443 45.328 -10.921 1.00 50. ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	
ATOM 2998 N MET B 691 47.228 46.522 -9.163 1.00 51. ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	
ATOM 2999 CA MET B 691 48.571 46.687 -9.704 1.00 50. ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	_
ATOM 3000 CB MET B 691 49.318 47.811 -8.980 1.00 51.	
TO CET AD 122 -0 640 1 00 53	
ATOM 3001 CG MET B 691 50.657 48.132 -9.640 1.00 53.	36 C
THOM 3001 CO MET B 691 50.537 48.339 -11.467 1.00 56.	
ATOM 5002 55 100 501 50 000 50 000 11 583 1 00 53.	40 C
ATOM 3003 CB MILE 3 COL 40 300 45 411 -9 635 1 00 49	99 C
ATOM 3004 C MAI B 601 F0 072 45 040 -10 603 1 00 48	85 0
ATOM 3003 0 PHI 2 CO2 40 340 44 730 -8 496 1 00 48	
ATOM 3006 R TIME 5 CO2 50 114 43 513 -9 335 1 00 46.	83 C
ATOM 3007 CA 1111 5 502 50 000 42 956 -6 928 1 00 46.	
ATOM 3000 CB TIME 2 CO2 40 754 42 275 -6 801 1 00 49.	37 0
ATOM 3009 301 THE B 502 50 000 44 000 -5 903 1 00 46.	
ATOM 3010 CG2 1111 2 CG2 40 CG2 42 470 -9 317 1 00 46.	35 C
ATOM 3011 C THE B 032 43.005 41.507 -9.640 1.00.47.	83 0
ATOM 3012 0 1RR B 052 30.303 12.677 -9.817 1.00 45.	12 N
ATOM 3013 N TIR B 093 40.307 12.740 -10 765 1.00 44.	76 C
ATOM 3014 CA TIR B 093 47.730 42.750 200 407 1 00 44.	
ATOM 3015 CB 11R B 055 45.250 12.502 -9.348 1 00 44.	
ATOM 3010 CG 11R 2 603	
ATOM 3017 CDI 11R 5 CO3 46 102 39 378 -8 335 1 00 44.	
ATOM 3016 CEI TIR 5 CO3 A5 453 41 076 -9 143 1 00 44.	
ATOM 3019 CDZ 11R B 093 45 265 40 222 -7 041 1 00 44.	
ATOM 3020 CE2 IIR B 033	
ATOM 3021 CZ 11R B 033	_
ATOM 3022 OR 11R B 033	
ATUM 3023 C 11R B 033	
ATOM 3024 0 11R B 033	
ATOM 3025 N INE B 034 17 763 1 00 43	
ATOM 3020 CA THE B 034	
ATOM 3027 CB THE B 037	_
ATOM 3028 CG2 THE B 034 13.000 13.005 1.00 45	
ATOM 3029 CGI IND B 034	
ATOM 3030 CDI THE B 034	_
ATOM 3031 C ILE B 694 50.207 43.264 -14.091 1.00 42.	· · -
ATOM 3032 0 THE B 634	
ATOM 3033 N LYS B 695 51.103 43.340 -13.117 1.00 42.	_
ATOM 3034 CA LYS B 695 52.459 42.870 -13.328 1.00 44	_
ATOM 3035 CB LYS B 695 53.385 43.388 -12.225 1.00 43.	
ATOM 3036 CG LYS B 695 53.502 44.917 -12.178 1.00 41.	
ATOM 3037 CD LYS B 695 54.713 45.391 -11.356 1.00 44	. • •
ATOM 3038 CE LYS B 695 54.702 44.884 -9.916 1.00 43	• • •
ATOM 3039 NZ LYS B 695 53.494 45.340 -9.178 1.00 46	
ATOM 3040 C LYS B 695 52.475 41.357 -13.374 1.00 44	_
ATOM 3041 O LYS B 695 53.337 40.746 -14.007 1.00 43	
ATOM 3042 N GLU B 696 51.504 40.763 -12.691 1.00 46	
ATOM 3043 CA GLU B 696 51.350 39.317 -12.680 1.00 47	-
ATOM 3044 CB GLU B 696 50.241 38.928 -11.719 1.00 50	
ATOM 3045 CG GLU B 696 50.272 37.460 -11.351 1.00 54	•
ATOM 3046 CD GLU B 696 51.597 37.040 -10.718 1.00 57	
ATOM 3047 OE1 GLU B 696 52.042 37.706 -9.745 1.00 55	
ATOM 3048 OE2 GLU B 696 52.184 36.034 -11.193 1.00 58	• • •
ATOM 3049 C GLU B 696 51.005 38.863 -14.111 1.00 47	
NTOM 3050 O GLU B 696 51.457 37.813 -14.579 1.00 48	
ATOM 3051 N LEU B 697 50.178 39.648 -14.793 1.00 45	
ATOM 3052 CA LEU B 697 49.831 39.361 -16.177 1.00 43	
ATOM 3053 CB LEU B 697 48.741 40.321 -16.648 1.00 42	_
ATOM 3054 CG LEU B 697 48.582 40.453 -18.159 1.00 40	
ATOM 3055 CD1 LEU B 697 48.198 39.136 -18.721 1.00 38	
NTOM 3056 CD2 LEII B 697 47.529 41.475 -18.484 '1:00 39	
ATOM 3057 C LEU B 697 51.083 39.537 -17.040 1.00 43	
ATOM 3058 O LEU B 697 51.272 38.823 -18.024 1.00 41	
ATOM 3050 N GLY B 698 51.921 40.511 -16.674 1.00 44	
ATOM 3060 CA GLY B 698 53.159 40.758 -17.402 1.00 45	
ATOM 3061 C GLY B 698 54.068 39.541 -17.299 1.00 47	
ATOM 3062 O GLY B 698 54.685 39.125 -18.281 1.00 46	
NOW 3063 N LYS B 699 54.139 38.959 -16.102 1.00 47	
ATOM 3064 CB LYS B 699 54.962 37.771 -15.890 1.00 49	
ATOM 3065 CB LYS B 699 54.982 37.367 -14.412 1.00 47	
ATOM 5000 55 502 38 433 -13 475 1.00 47	.58
ATOM 3066 CG LYS B 699 33.303 30.433 13.373 2100 17	

											_
ATOM	3067		LYS B 69		55.468	37.965		1.00 5			C C
ATOM	3068		LYS B 69		55.575	39.162 40.181		1.00			N
ATOM	3069		LYS B 69		56.604 54.433	36.596		1.00 5	51.24		C
MOTA MOTA	3070 3071		LYS B 69		55.214	35.797	-17.246	1.00			N O
ATOM	3072			00	53.106		-16.840	1.00 5			C
ATOM	3073			00	52.472		-17.610 -17.457	1.00			C
MOTA	3074	CB		00	50.960 52.849		-19.072	1.00			C
ATOM	3075 3076	C 0	ALA B 70		52.693	34.617	-19.850	1.00			0
ATOM ATOM	3077	N	ILE B 70		53.354	36.722	-19.442	1.00			N C
ATOM	3078	CA	ILE B 7	01	53.777		-20.811	1.00			Č
MOTA	3079	CB		01	53.229 53.304	38.305	-21.328 -22.853	1.00			С
ATOM	3080	CG2	ILE B 70	01 01	51.783		-20.885	1.00	62.20		С
ATOM ATOM	3081 3082	CG1	ILE B 7		51.171	39.791	-21.317	1.00	59.98		C
ATOM	3083	C	ILE B 7	01	55.309		-20.885	1.00 1.00			Õ
MOTA	3084	0	ILE B 7		55.863		-21.966 -19.743		66.34		N
ATOM	3085	N	VAL B 7		55.983 57.443		-19.702		68.86		C
ATOM ATOM	3086 3087	CA CB		02	58.004	36.404	-18.375		70.10		C
ATOM	3088	CG1	•	02	57.776	34.879	-18.272	1.00 1.00	71.64 69.37		C
ATOM	3089	CG2		02	59.495		-18.265 -20.804		70.42		Ċ
ATOM	3090	C		02 02	58.113 59.268		-21.137		70.65		0
ATOM	3091 3092	N O		03	57.399	35.112	-21.350		70.99		N
ATOM ATOM	3092	CA		03	57.914	34.256	-22.439	1.00	71.66		C
ATOM	3094	CB	LYS B 7	03	57.009	33.025	-22.644		71.59 70.04		Č
ATOM	3095	CG		03	55.970 56.607	32.191	-21.564 -20.222		68.00		C
ATOM	3096	CD	_	703 703	55.556	32.576	-19.156		65.59		C
MOTA MOTA	3097 3098	CE NZ		03	56.127	32.144	-17.866		65.22		C
ATOM	3099	C		03	58.056		-23.777		72.38 71.19		Ö
ATOM	3100	0		703	58.385		-24.824 -23.715		73.01		N
MOTA	3101	N		704 704	57.805 57.912		-24.862	1.00	71.93		C
ATOM ATOM	3102 3103	CA CB		704	56.884	36.822	-25.950		73.00		C C
MOTA	3104	CG	ARG B 7	704	55.386	36.927	-25.615		74.27 75.35		c
ATOM	3105	CD		704	54.844 55.212	35.840	-24.661 -25.024		76.36		N
ATOM	3106	NE		704 704	54.643		-24.524	1.00	76.03		С
ATOM ATOM	3107 3108	CZ NH1		704	53.652	33.454	-23.642		75.36		N N
ATOM	3109	NH2		704	55.102		-24.872		75.34 69.64		C
MOTA	3110	C		704	57.790 57.608		-24.472 -23.279	1.00	66.65		0
ATOM	3111	0		704 704	57.913		-25.331	1.00	69.12		0
ATOM ATOM	3112 3113	OXT CB		712	57.385	43.292	-25.054		76.67		C
ATOM	3114	CG		712	57.366		-24.422		79.75 80.68		Ç
MOTA	3115	CD2	 _	712	57.776 57.527		-23.093 -22.892		80.36		С
ATOM	3116	CE2 CE3		712 712	58.330		-22.047	1.00	81.33		C
MOTA MOTA	3117 3118	CD1		712	56.896	45.859	-24.973	1.00	79.14		C
ATOM	3119	NE1	TRP B	712	56.992		-24.052		79.72 81.24		C
ATOM	3120	CZ2		712	57.816 58.616		-21.682 -20.850		82.51	•	С
MOTA	3121	CZ3		712 712	58.358		-20.676	1.00	82.92		C
ATOM ATOM	3122 3123	Cnz	TRP B		54.927	43.386	-25.637	1.00	72.19		0
ATOM	3124	Ö	TRP B	712	54.447		-25.077	1.00 1.00			N
MOTA	3125	N	TRP B		56.159 56.037		-25.628 -24.971	1.00			Ç
ATOM	3126	CA	TRP B GLN B	712 713	54.553		-26.851	1.00	70.70		N
ATOM ATOM	3127 3128	N CA	GLN B	713	53.492	43.651	-27.617		67.50		C
MOTA	3129	СВ	GLN B	713	53.709		-29.115		68.09 67.09		C
ATOM	3130	CG	GLN B		52.723	44.211	-29.979 -31.410		67.32		Ç
ATOM	3131	CD	GLN B		52.700 52.013		-31.747	1.00	66.63		0
MOTA	3132 3133	OE1			53.464	44.385	-32.263		68.23		N
MOTA MOTA	3134	C	GLN B		52.1 5 0	43.020	-27.250		66.02		C
ATOM	3135	0	GLN B	713	51.084	43.581	-27.511		65.24 63.31		N
ATOM	3136	N	ARG B	714 714	52.223 51.036		3 -26.659 3 -26.254	1700	61.48		C
ATOM	3137	CA CB	ARG B		51.036		-25.702	1.00	61.13		C
ATOM ATOM	3138 3139	CG	ARG B	714	50.368	38.708	-25.510	1.00	59.67		C
ATOM	3140		ARG B	714	50.938	37.327	7 ~25.234		59.23 56.56		N
MOTA	3141	NE	ARG B		49.896		3 -25.029 7 -25.939		55.25		C
MOTA	3142		ARG B		49.013 48.997		$\frac{1}{2}$ -27.181	1.00	52.86		N
ATOM	3143 3144	NH:	2 ARG B		48.122	35.026	6 -25.576	1.00	55.23		N C
ATOM ATOM	3145		ARG B	714	50.140	41.820) -25.228		59.45		0
MOTA	3146	0	ARG B		48.900		4 -25.291 2 -24.29 4		56.93		N
MOTA	3147	N	PHE B	112	50.779	44.J14					

							C
MOTA	3148	CA	PHE B 715	50.081	43.275 -23.265	1.00 55.97	C
	3149		PHE B 715	51.112	44.083 -22.476	1.00 55.62	C
MOTA			PHE B 715	50.671	44.440 -21.098	1.00 55.57	С
MOTA	3150			50.517	43.459 -20.129	1.00 55.02	C
ATOM	3151			50.402	45.755 -20.765	1.00 55.32	C
MOTA	3152		PHE B 715		43.788 -18.845	1.00 54.58	C
ATOM	3153		PHE B 715	50.097		1.00 55.32	С
ATOM	3154		PHE B 715	49.979	46.086 -19.484	1.00 54.38	Ċ
ATOM	3155	CZ	PHE B 715	49.829	45.101 -18.524		č
ATOM	3156		PHE B 715	49.029	44.228 -23.873	1.00 55.83	
	3157	•	PHE B 715	47.873	44.306 -23.427	1.00 54.59	0
ATOM		-	TYR B 716	49.438	44.954 -24.902	1.00 54.74	N
ATOM	3158			48.533	45.877 -25.559	1.00 53.12	C
ATOM	3159		TYR B 716	49.292	46.650 -26.637	1.00 52.93	С
ATOM	3160		TYR B 716		47.698 -27.341	1.00 53.35	· C
ATOM	3161		TYR B 716	48.468		1.00 53.30	С
ATOM	3162	CD1	TYR B 716	47.676	47.363 -28.451		Č
ATOM	3163	CE1	TYR B 716	46.879	48.313 -29.093	1.00 52.48	č
ATOM	3164	CD2	TYR B 716	48.444	49.018 -26.881	1.00 53.10	
ATOM	3165		TYR B 716	47.649	49.984 -27.512	1.00 53.79	C
	3166		TYR B 716	46.860	49.621 -28.619	1.00 53.73	C
ATOM			TYR B 716	46.025	50.542 -29.229	1.00 52.54	0
ATOM	3167			47.327	45.141 -26.155	1.00 51.97	С
MOTA	3168		TYR B 716		45.602 -26.035	1.00 52.22	0
ATOM	3169	0	TYR B 716	46.190		1.00 49.96	N
ATOM	3170	N	GLN B 717	47.575	43.993 -26.783	1.00 48.22	C
ATOM	3171	CA	GLN B 717	46.501	43.209 -27.396	1.00 40.22	Č
ATOM	3172	CB	GLN B 717	47.088	42.083 -28.250	1.00 45.77	č
ATOM	3173	CG	GLN B 717	47.976	42.561 -29.384	1.00 43.14	
	3174	CD	GLN B 717	48.663	41.426 -30.120	1.00 41.51	C
ATOM			GLN B 717	49.286	40.551 -29.513	1.00 40.43	0
ATOM	3175	OE1		48.556	41.437 -31.435	1.00 43.58	N
MOTA	3176	_	GLN B 717		42.625 -26.337	1.00 49.89	C
ATOM	3177	С	GLN B 717	45.565		1.00 49.09	0
ATOM	3178	0	GLN B 717	44.350	42.495 -26.552	1.00 49.29	N
MOTA	3179	N	LEU B 718	46.142	42.274 -25.189		Ċ
ATOM	3180	CA	LEU B 718	45.373	41.712 -24.084	1.00 49.37	č
ATOM	3181	CB	LEU B 718	46.308	41.010 -23.085	1.00 47.38	
	3182	CG	LEU B 718	47.051	39.758 -23.597	1.00 47.24	C
ATOM			LEU B 718	47.762	39.096 -22.435	1.00 44.05	С
ATOM	3183	CD1		46.087	38.767 -24.238	1.00 45.93	С
MOTA	3184		LEU B 718		42.802 -23.378	1.00 50.80	С
MOTA	3185	С	LEU B 718	44.566		1.00 52.36	0
ATOM	3186	O	LEU B 718	43.344	42.681 -23.181	1.00 50.84	N
ATOM	3187	N	THR B 719	45.255	43.880 -23.019		Ċ
MOTA	3188	CA	THR B 719	44.617	44.981 -22.325	1.00 48.98	č
ATOM	3189	CB	THR B 719	45.625	46.076 -21.941	1.00 49.16	
	3190	OG1	THR B 719	46.694	45.500 -21.179	1.00 46.67	0
MOTA		CG2	THR B 719	44.937	47.140 -21.093	1.00 50.99	C
MOTA	3191		THR B 719	43.571	45.564 -23.237	1.00 48.42	C
MOTA	3192	C		42.725	46.338 -22.811	1.00 48.95	0
ATOM	3193	0	THR B 719		45.174 -24.500	1.00 47.59	N
MOTA	3194	N	LYS B 720	43.624	45.666 -25.461	1.00 47.80	С
ATOM	3195	CA	LYS B 720	42.661		1.00 49.63	С
ATOM	3196	CB	LYS B 720	43.317	45.745 -26.844	1.00 51.82	c
ATOM	3197	CG	LYS B 720	42.422	46.298 -27.953	1.00 51.02	Č
MOTA	3198	CD	LYS B 720	43.207	46.523 -29.247	1.00 52.24	
ATOM	3199	CE	LYS B 720	42.380	47.240 -30.306	1.00 52.49	C
	3200	NZ	LYS B 720	43.224	47.573 -31.486	1.00 52.65	N
ATOM			LYS B 720	41.436	44.751 -25.486	1.00 46.63	C
ATOM	3201	C		40.317	45.216 -25.660	1.00 46.51	0
MOTA	3202	0		41.656	43.450 -25.302	1.00 45.33	N
MOTA	3203	N	LEU B 721		42.480 -25.305	1.00 42.47	С
MOTA	3204	CA	LEU B 721	40.560			C
MOTA	3205	CB	LEU B 721	41.117	41.060 -25.363	1.00 43.91	Ċ
ATOM	3206	CG	LEU B 721	40.151	39.925 -25.004		č
ATOM	3207	CD1	LEU B 721	39.067	39.890 -26.009	. T.00 42.30	c
ATOM	3208	CD2		40.833	38.601 -25.023	1.00 45.30	
	3209	C	LEU B 721	39.737	42.658 -24.038		C
MOTA		ŏ	LEU B 721	38.517	42.495 -24.041	1.00 39.97	0
MOTA	3210		LEU B 722	40.424	42.989 -22.952		N
MOTA	3211	N		39.758	43.185 -21.687		C
ATOM	3212	CA	LEU B 722		43.381 -20.560		С
MOTA	3213	CB	LEU B 722	40.781			С
MOTA	3214	CG	LEU B 722	41.587	42.157 -20.106		č
MOTA	3215	CD1		42.644	42.591 -19.094		č
ATOM	3216	CD2		40.661	41.092 -19.502		c
ATOM	3217	C	LEU B 722	38.817	44.379 -21.758	1.00 41.55	
	3218	ŏ	LEU B 722	37.799	44.420 -21.068	1.00 42.09	0
MOTA			ASP B 723	39.151		1.00 42.99	N
ATOM	3219	N		38.316			С
MOTA	3220	CA					С
ATOM	3221	CB	ASP B 723	39.172			С
MOTA	3222	CG	ASP B 723	40.005			Ō
ATOM	3223	OD1		40.045			ő
ATOM	3224	OD2	_ = = = = = = = = = = = = = = = = = = =	40.612			
ATOM	3225	C	ASP B 723	37.130	46.293 -23.683	1.00 44.57	C
	3225	Ö	ASP B 723	36.015	46.774 -23.462	1.00 46.39	0
ATOM			SER B 724	37.361	77/	1.00 43.42	N
MOTA	3227	N		36.289		1.00 42.07	C
MOTA	3228	CA	SER B 724	30.203			

		36.838 44.469 -26.838 1.00 39.42	C
MOTA	3229 CB SER B 724	26 550 43 096 -26.689 1.00 35.54	0
ATOM	5250 00 000	25 210 44 388 -24.954 1.00 43.53	C
ATOM	3231 C SER B 724	24 092 44 250 -25.459 1.00 43.34	0
ATOM	7272 - 705	35 556 43.816 -23.802 1.00 43.59	N
ATOM	J230 M	34.637 42.986 -23.030 1.00 44.30	C
MOTA		35 375 42 325 -21.856 1.00 44.01	C
MOTA	7255 02	36.235 41.121 -22.233 1.00 43.27	C
ATOM	3236 CG MET B 725	35 250 39.806 -23.021 1.00 45.26	S
MOTA	3237 SD MET B 725	34.168 39.284 -21.651 1.00 41.25	C
ATOM	3238 CE MET B 725	23 487 43 829 -22,503 1.00 45.65	C
MOTA	3239 C MET B 725	32 351 43 365 -22 410 1.00 45 72	0
MOTA	3240 O MET B 725	33.794 45.076 -22.158 1.00 48.01	N
ATOM	3241 N HIS B 726	32 802 46 009 -21.641 1.00 50.00	C
MOTA	3242 CA HIS B 726	33.420 47.395 -21.498 1.00 51.97	C
ATOM	3243 CB HIS B 726	32.496 48.401 -20.906 1.00 58.14	C
ATOM	3244 CG HIS B 726	31.900 49.505 -21.442 1.00 60.34	C
MOTA	3245 CD2 HIS B 726 3246 ND1 HIS B 726	32 070 48.342 -19.597 1.00 61.53	N
ATOM	2010 1122 - 200	31 260 49.362 -19.349 1.00 62.76	C
ATOM	J247 OHL 1-10	31 148 50.077 -20.458 1.00 61.25	N
ATOM	2230 1120	31 595 46.072 -22.573 1.00 50.40	C
ATOM	3213 0	30.451 46.052 -22.125 1.00 52.16	0
ATOM	3250 O HIS B 726 3251 N GLU B 727	31.856 46.137 -23.873 1.00 49.81	N C
ATOM	3252 CA GLU B 727	30.795 46.199 -24.869 1.00 49.25	Č
ATOM	3253 CB GLU B 727	31.406 46.482 -26.244 1.00 50.48	c c
ATOM	3254 CG GLU B 727	30.386 46.648 -27.373 1.00 51.71	C
MOTA	3255 CD GLU B 727	30.961 47.331 -28.612 1.00 53.11	Ö
ATOM	3256 OE1 GLU B 727	31.811 48.233 -28.440 1.00 52.61	ŏ
ATOM ATOM	3257 OE2 GLU B 727	30.546 46.981 -29.748 1.00 51.75	Č
ATOM	3258 C GLU B 727	30.007 44.891 -24.910 1.00 48.75	ŏ
ATOM	3259 O GLU B 727	28.785 44.882 -25.083 1.00 50.50	N
MOTA	3260 N VAL B 728	30.712 43.778 -24.756 1.00 47.36	Ċ
ATOM	3261 CA VAL B 728	30.076 42.470 -24.776 1.00 43.82 31.128 41.362 -24.695 1.00 41.74	Ċ
ATOM	3262 CB VAL B 728	31.120 11.00	Ċ
ATOM	3263 CG1 VAL B 728	30.473	Č
ATOM	3264 CG2 VAL B 728	32.124 11.000 1 00 44 32	С
ATOM	3265 C VAL B 728	29.103 12.00 12.74	0
ATOM	3266 O VAL B 728	27.302 22.00 1 00 44 20	N
ATOM	3267 N VAL B 729	23.300 12.00 1 00 14 02	C
ATOM	3268 CA VAL B 729	201103 1 00 43 65	C
MOTA	3269 CB VAL B 729	23.331 12.00 1 00 41 24	С
ATOM	3270 CG1 VAL B 729	20.003	C
ATOM	3271 CG2 VAL B 729	30.764 42.096 -19.782 1.00 43.39 27.427 43.230 -21.298 1.00 45.78	С
ATOM	3272 C VAL B 729	26.405 42.704 -20.848 1.00 45.13	0
ATOM	3273 O VAL B 729	27 442 44 419 -21.900 1.00 47.33	N
ATOM	3274 N GLU B 730 3275 CA GLU B 730	26 228 45 220 -22.046 1.00 47.83	C
ATOM		26 553 46.622 -22.599 1.00 50.86	С
MOTA		26 662 47 710 -21.506 1.00 54.86	C
ATOM		27 996 48 455 -21.503 1.00 59.05	C
ATOM	3278 CD GLU B 730 3279 OE1 GLU B 730	28.185 49.349 -22.371 1.00 59.53	0
ATOM	3280 OE2 GLU B 730	28.850 48.141 -20.629 1.00 59.65	C
MOTA	3281 C GLU B 730	25.222 44.523 -22.937 1.00 45.22	Ö
MOTA	3282 O GLU B 730	24.017 44.554 -22.687 1.00 43.25	N
ATOM ATOM	3283 N ASN B 731	25.724 43.873 -23.970 1.00 44.09	Ċ
ATOM	3284 CA ASN B 731	24.840 43.172 -24.859 1.00 45.21 25.573 42.828 -26.140 1.00 45.08	č
ATOM	3285 CB ASN B 731	23.373 12.020 1 00 46 07	Ċ
MOTA	3286 CG ASN B 731	23.731 33.012 37.00 46.06	0
MOTA	3287 OD1 ASN B 731	24.042 44.00 1 00 1/1 35	N
ATOM	3288 ND2 ASN B 731	27.022 44.001	C
ATOM	3289 C ASN B 731	24.207 41.302 1 00 45 00	0
ATOM	3290 O ASN B 731	23.173 41.343 20 46 30	N
ATOM	3291 N LEU B 732	25.012 12.02 2 00 45 34	С
ATOM	3292 CA LEU B 732	24.000 40.00 40.00 40.74	С
MOTA	3293 CB LEU B 732	25.545 55.575	C
MOTA	3294 CG LEU B 732	26.782 38.685 -23.167 1.00 44.03 27.797 37.753 -22.492 1.00 43.46	С
MOTA	3295 CD1 LEU B 732	21.73	С
MOTA	3296 CD2 LEU B 732	23 735 40.394 -21.469 1.00 45.18	C
MOTA	3297 C LEU B 732 3298 O LEU B 732	22 710 39 724 -21 340 1.00 45.02	0
MOTA	733	24 069 41.377 -20.634 1.00 46.19	<i>M</i> ·
ATÒM	777	22 196 41 785 -19.531 1.00 47.86	C
MOTA	722	23 758 43 006 -18.797 1.00 48.59	C
ATOM	773	24.922 42.766 -17.835 1.00 50.13	C
ATOM		25.562 44.100 -17.419 1.00 47.59	C
MOTA		24.397 41.959 -16.650 1.00 49.36	C
ATOM		21.818 42.154 -20.114 1.00 47.84	0
MOTA	3305 C LEU B 733 3306 O LEU B 733	20.772 41.843 -19.548 1.00 46.17	Ŋ
MOTA	3307 N ASN B 734	21.843 42.831 -21.254 1.00 48.60	C
MOTA	3308 CA ASN B 734	20.627 43.226 -21.928 1.00 49.66	C
ATOM ATOM	3309 CB ASN B 734	20.948 43.779 -23.292 1.00 49.21	•
PYAN			

										_
MOTA	3310	CG	ASN B 7	34	20.398		-23.468	1.00 4		C
ATOM	3311			34	20.672		-22.661	_	17.53	O N
ATOM	3312	ND2		34	19.590		-24.501	1.00 5		C
ATOM	3313	_		34	19.662		-22.102 -21.452		33.06	Ō
ATOM	3314	_		34	18.624 19.988		-22.990		52.73	N
ATOM	3315			35 35	19.111		-23.211		55.80	C
MOTA	3316 3317			35	19.782		-24.120		59.40	C
ATOM ATOM	3318	CG	-	35	18.792		-24.974	1.00		C
ATOM	3319			35	17.573		-24.434		67.60	C
ATOM	3320	CE1		35	16.663	36.992	-25.213		67.60 67.46	Č
ATOM	3321	CD2		35	19.079		-26.310 -27.098		69.17	Č
ATOM	3322			35	18.180 16.976		-26.535		69.21	С
ATOM	3323	CZ OH		'35 '35	16.079		-27.282		70.20	0
ATOM ATOM	3324 3325	C		35	18.711	39.335	-21.903		55.58	C
ATOM	3326	ŏ		35	17.615		-21.784	1.00		О И
MOTA	3327	N		36	19.607		-20.924	1.00	54.89 53 16	Č
ATOM	3328	CA	_	136	19.336	38.783	-19.632 -18.670		51.12	Č
ATOM	3329	CB		136	20.511 20.310		-17.164		47.19	S
ATOM	3330	SG C		136 136	18.074		-19.051		53.51	C
ATOM ATOM	3331 3332	Ö		136	17.122	38.704	-18.698		52.40	0
ATOM	3333	Ŋ	_	137	18.069		-18.974		55.03	N C
ATOM	3334	CA		737	16.925		-18.440	— •	57.00 59.20	Č
ATOM	3335	CB		137	17.251		-18.214 -16.989		62.18	C
ATOM	3336	CG		737 737	18.103 19.378		-16.873		63.49	С
ATOM	3337 3338	CD1 CD2		737 737	17.643	44.024			63.94	C
ATOM ATOM	3339			737	20.199	42.914	-15.759		64.91	C
ATOM	3340	CE2		737	18.449		-14.850	1.00		C C
ATOM	3341	CZ		737	19.733		-14.745		65.88 57.94	č
ATOM	3342	С		737	15.732	41.321	-19.365 -18.923	- · · ·	57.80	Ō
ATOM	3343	0		737 738	14.598 15.984		-20.638		58.27	N
ATOM	3344 3345	N CA		738	14.906		-21.601	1.00	57.71	C
ATOM ATOM	3346	CB	-	73B	15.435	40.602	-23.009		57.26	C
ATOM	3347	CG		738	16.081		-23.593		56.92	C
MOTA	3348	CD	•	738	16.256		-25.100		56.35 53.23	ő
MOTA	3349	OE1		738	16.617 15.997		-25.699 -25.724		55.08	N
ATOM	3350	NE2		738 738	13.930	39.847			59.66	С
ATOM ATOM	3351 3352	C O		738	12.866		-20.615			0
ATOM	3353	N	-	739	14.243		-21.331		55.69	C N
ATOM	3354	CA		739	13.270		-20.852		53.07 54.97	c
ATOM	3355	CB		739	12.498		-22.025 -23.112		52.90	ō
ATOM	3356	0G1		739 739	12.318 11.054		-21.527		55.27	С
MOTA	3357 3358	CG2 C		739	13.808		-19.834		50.60	C
ATOM ATOM	3359	ŏ		739	14.335	35.546	-20.142		52.43	0
ATOM	3360	N	PHE B	740	13.622		-18.595		49.01 46.71	N C
ATOM	3361	CA		740	13.983		-17.342	_	44.70	Č
ATOM	3362	CB	•	740 740	15.525 16.198		-17.159 -17.644	1.00	42.24	C
MOTA	3363	CG CD1		740 740	17.436	35.137			42.14	С
atom atom	3364 3365	CD2	4 • • • • • •	740	15.591	33.852	-17.403	1.00	40.98	C
ATOM	3366	CE1		740	18.068		-18.712		41.87	C
ATOM	3367	CE2	PHE B	740	16.191		-17.794	1.00 1.00	39.92 43.48	C
MOTA	3368	CZ		740	17.433	32.699	-18.450 -16.433		46.50	Č
ATOM	3369	C		740 740	13.327 12.258	37.227	-15.848	1.00	45.17	٥
ATOM	3370 3371	O N	PHE B		13.982	38.584	-16.391	1.00	48.07	N
MOTA MOTA	3372	CA	LEU B		13.516	39.736	-15.641		46.54	C
MOTA	3373	CB	LEU B		14.665	40.698	-15.380		44.72	C
ATOM	3374	CG	LEU B		15.868		-14.695		44.47	c
MOTA	3375	CD1			16.939	41.119	-14.429 -13.394		43.80	Č
MOTA	3376		LEU B		15.412 12.481		-16.511		46.91	С
ATOM	3377	C O	LEU B LEU B		11.496		-15.940		46.63	0
ATOM ATOM	3378 3379	·OXT			12.679		-17.747		51.23	0
MOTA	3380	Cl	486 C	1	10.688	36.635	0.119		48.62	C
MOTA	3381	C2	486 C	1	10.546	38.167			49.83 48.98	C
MOTA	3382	C3	486 C	1	11.801	38.921 38.370			45.85	Ċ
MOTA	3383	C4	486 C	1 1	13.055 13.329	36.980			45.84	C
MOTA	3384 3385	C5 C6	486 C	1	12.119	36.103	-0.192	1.00	46.31	C
MOTA MOTA	3386	C7	486 C	î	14.172	39.315	1.375		44.44	C
ATOM	3387	C8	486 C	1	15.194	38.470			44.18	C
ATOM	3388	C9	486 C	1	15.753	37.359			41.72	
MOTA	3389			1	14.615 16.727	36.424 36.595			41.05	C
ATOM	3390	C11	486 C	1	10.121	J0.J9				

		С
дтом 3391 C12 486 C 1	17.443 35.395 1.442 1.00 41.10	c
777 777 777 777 777	16.192 34.446 1.098 1.00 41.32	С
ATOM 3393 C14 486 C 1	15.075 54.000 - 002 1 00 42 04	C
ATOM 3394 C15 486 C 1	17.913 37.301 3.096 1.00 42.18	C C
ATOM 3395 C16 486 C 1	19 410 34 848 2.583 1.00 41.97	0
ATOM SSSS 496 C 1	19.537 34.076 2.182 1.00 42.79	Č
ATOM 5557 65 6 1	15.517 34.745 -1.419 1.00 45.55	C
ATOM 3399 C19 486 C 1	10.330 33.12. 2 272 1 00 42 53	С
ATOM 3400 C22 486 C 1	15.475 35.664 7.750 1.00 43 83	C
ATOM 3401 C23 486 C 1	15.838 33.772 -4.345 1.00 44.43	C
ATOM 3402 C24 486 C 1	16.326 33.305 -3.382 1.00 43.34	c
ATOM 5405 CDS 10C C 1	15.948 33.454 -1.983 1.00 43.03	N
ATOM STOR ADE C 1	10.020 34.20	С
7TOM 3406 C28 486 C 1	10.320 33.13	C
ATOM 3407 C29 486 C 1	13.653 33.748 -0.040 1.00 53.82	O C
ATOM 3408 030 486 C 1	16.862 33.768 4.471 1.00 40.70	c
ATOM JAOS CO. 1	17.693 34.222 3.706 1.00 41.00	С
ATOM 3411 C32 486 C 1	15.932 33.113 10 16 91	C
ATOM 3412 C1 486 D 1	20.376 30.492 -18.277 1.00 46.80	C
ATOM 3413 C2 486 D 1	28 270 31.865 -18.881 1.00 44.43	C C
ATOM 3414 C3 486 D 1	27 175 32.591 -19.120 1.00 41.05	Č
A10M 3113 25 406 D 1	25.835 32.129 -18.782 1.00 42.03	С
ATOM 3417 C6 486 D 1	23.673 33.755 =19.757 1.00 41.50	C
ATOM 3418 C7 486 D 1	26 201 34 344 -20,621 1.00 40.78	C
ATOM 3419 C8 486 D 1	24 983 34.302 -19.804 1.00 38.64	C
ATOM 3420 C9 486 D 1 ATOM 3421 C10 486 D 1	24 724 32.914 -19.087 1.00 40.00	č
ATOM 3421 C10 486 D 1 ATOM 3422 C11 486 D 1	23.922 34.003 20 272 1 00 37 47	С
ATOM 3423 C12 486 D 1	22.476 34.002 -19.926 1.00 37.00	C
ATOM 3424 C13 486 D 1	23 158 32.521 -18.743 1.00 38.90	C C
ATOM 3423 C14 405 D	24.048 36.073 -21.608 1.00 37.02	č
71. ARC ARC D 1	22.592 36.348 -22.093 1.00 37.41	C
ATOM 3428 C17 486 D 1	21.003 35.733 -21.381 1.00 37.52	0
ATOM 3429 03 486 D 1	20.567 33.060 -17.306 1.00 37.86	C
ATOM 3430 C18 486 D 1	22 108 35.701 -19.200 1.00 32.69	Ċ
ATOM 3431 C13 406 D 1	23.453 33.819 -16.364 1.00 33.02	C
ATOM 3433 C23 486 D 1	22.990 34.222 11.00 32 79	c
ATOM 3434 C24 486 D 1	21.640 33.300 -15.511 1.00 35.54	C C
ATOM 3435 C25 486 D 1 ATOM 3436 C26 486 D 1	21 277 32.758 -16.823 1.00 38.17	N
707 406 D 1	21.277 32.750 13.226 1.00 33.15 21.103 34.324 -13.226 1.00 33.15 22.013 35.067 -12.323 1.00 31.16	С
ATOM 3438 C28 486 D 1	22.013 33.001 = 200 1 00 33 27	C
ATOM 3439 C29 486 D 1	20.313 33.152 -17.826 1.00 52.82	C
ATOM 3440 030 486 D 1	21 633 33.142 -23.494 1.00 41.97	č
ATOM 3441 030 100 1	21.570 34.133 -22.749 1.00 38.31	C
ATOM 3443 C32 486 D 1	21.045 52.115 1 100 36 61	C
ATOM 3444 C1 486 E 1	14.179 33.233 -12.746 1.00 36.99	C C
ATOM 3445 C2 486 E 1	15 554 34.920 -13.578 1.00 37.43	C
ATOM 3440 00 100 E 1	16.599 35.664 -13.118 1.00 36.34	C
ATOM 3448 C5 486 E 1	16.661 36.110 -10.748 1.00 36.28	C
ATOM 3449 C6 486 E 1	13.310 35.713 -14.159 1.00 36.62	C
ATOM 3450 C7 486 E 1	18 328 37.301 -13.852 1.00 35.07	C
ATOM 3451 CO 496 F 1	18.873 37.303 -12.404 1.00 34.80	č
ATOM 3453 C10 486 E 1	17.770 30.303	C
ATOM 3454 C11 486 E 1	19.417 30.765 -10.909 1.00 32.84	. C
ATOM 3455 C12 486 E 1	18 728 38,909 -9.949 1.00 31.91	C
ATOM 5450 014 496 F 1	18.068 37.494 -9.795 1.00 33.38	ç,
ATOM 3458 C15 486 E 1	20.344 33.33	С
ATOM 3459 C16 486 E 1	20 401 40 621 -11.053 1.00 34.07	C
ATOM 3460 C17 486 E 1	21.454 41.040 -10.066 1.00 32.90	. · C
ATOM 5460 010 406 F 1	18.973 36.481 -8.917 1.00 35.40	C
ATOM 3463 C19 486 E 1	21.272 38.333 -10.452 1.00 30.11	С
ATOM : 3464 C22 486 E 1	20 212 34 231 -8.643 1.00 33.97	C
ATOM 3465 C23 486 E 1	20.212 31.236 -7.298 1.00 34.94	C C
ATOM 3466 C24 486 E 1	20.241 35.876 -6.789 1.00 34.09	c
3468 C26 486 E 1	19.420 36.793 -7.575 1.00 32.01	N
ATOM 3469 N27 486 E 1	21.300 33.395 -7.007 1.00 38.03	C
ATOM 3470 C28 486 E 1	20.907 33.384 -5.149 1.00 38.43	С
ATOM 3471 C29 486 E I		

ATOM ATOM ATOM ATOM ATOM END	3472 3473 3474 3475 3476 3477	C30 C31	486 486	E E X	1 1 1 1 2	18.364 19.414 17.218 9.283	33.663 -13.116 42.330 -11.163 41.686 -11.129 43.271 -11.355 41.417 -0.469 25.308 -16.720	1.00 31.67 1.00 33.64 1.00 24.92 1.00 29.28	00000
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116

GR3

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3 REFINEMENT.
REMARK
                         : CNX 2000.1
             PROGRAM
REMARK
         3
                         : Brunger, Adams, Clore, Delano,
             AUTHORS
REMARK
         3
                           Gros, Grosse-Kunstleve, Jiang,
         3
                           Kuszewski, Nilges, Pannu, Read,
REMARK
         3
REMARK
                           Rice, Simonson, Warren
         3
REMARK
                              and
         3
REMARK
                           Molecular Simulations Inc.,
                            (Badger, Berard, Kumar, Szalma,
REMARK
         3
REMARK
                             Yip).
REMARK
         3
REMARK
            DATA USED IN REFINEMENT.
REMARK
             RESOLUTION RANGE HIGH (ANGSTROMS) : 2.80
                                    (ANGSTROMS): 37.27
REMARK
             RESOLUTION RANGE LOW
                                     (SIGMA(F)): 0.0
REMARK
             DATA CUTOFF
                                                     973340.75
REMARK
                                        (ABS(F)):
             DATA CUTOFF HIGH
                                                      0.000000
REMARK
                                        (ABS(F))
             DATA CUTOFF LOW
                                             (%): 98.2
REMARK
             COMPLETENESS (WORKING+TEST)
REMARK
                                                 : 8219
             NUMBER OF REFLECTIONS
REMARK
REMARK
             FIT TO DATA USED IN REFINEMENT.
                                                : THROUGHOUT
REMARK
             CROSS-VALIDATION METHOD
                                                : RANDOM
REMARK
              FREE R VALUE TEST SET SELECTION
                                  (WORKING SET) : 0.220
REMARK
              R VALUE
REMARK
                                                : 0.262
              FREE R VALUE
REMARK
                                                   5.0
              FREE R VALUE TEST SET SIZE
REMARK
                                                    414
              FREE R VALUE TEST SET COUNT
REMARK
                                               : 0.013
              ESTIMATED ERROR OF FREE R VALUE
REMARK
 REMARK
             FIT IN THE HIGHEST RESOLUTION BIN.
 REMARK
                                                        6
              TOTAL NUMBER OF BINS USED
                                               (A) : 2.80
 REMARK
              BIN RESOLUTION RANGE HIGH
 REMARK
                                                   : 2.98
                                                (A)
              BIN RESOLUTION RANGE LOW
              BIN COMPLETENESS (WORKING+TEST) (%): 97.2
 REMARK
                                     (WORKING SET): 1245
 REMARK
              REFLECTIONS IN BIN
                                     (WORKING SET): 0.287
 REMARK
              BIN R VALUE
 REMARK
                                                    : 0.323
              BIN FREE R VALUE
 REMARK
                                                       5.0
              BIN FREE R VALUE TEST SET SIZE
                                                (육) :
 REMARK
              BIN FREE R VALUE TEST SET COUNT
              ESTIMATED ERROR OF BIN FREE R VALUE: 0.040
 REMARK
 REMARK
          3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
 REMARK
 REMARK
                                        : 2026
              PROTEIN ATOMS
 REMARK
                                             0
              NUCLEIC ACID ATOMS
 REMARK
                                              0
              HETEROGEN ATOMS
 REMARK
                                              0
               SOLVENT ATOMS
 REMARK
 REMARK
             B VALUES.
                                          (A**2) : 19.6
 REMARK
               FROM WILSON PLOT
 REMARK
                            (OVERALL, A**2) : 33.6
               MEAN B VALUE
 REMARK
               OVERALL ANISOTROPIC B VALUE.
 REMARK
                B11 (A**2) : 1.60
 REMARK
                B22 (A**2) : 12.50
 REMARK
                B33 (A**2) :-14.10
 REMARK
                                                                     1, 1
                B12^{\circ}(A^{**}2) : 0.00
 REMARK
                B13 (A^{**}2) : 0.00
 REMARK
                B23 (A**2) : 0.00
 REMARK
  REMARK
              BULK SOLVENT MODELING.
  REMARK
               METHOD USED : FLAT MODEL
  REMARK
                          : 0.350747
               KSOL
  REMARK
                           : 21.401 (A**2)
               BSOL
  REMARK
  REMARK
```

```
ESTIMATED COORDINATE ERROR.
REMARK
                                       (A) : 0.34
            ESD FROM LUZZATI PLOT
REMARK
                                        (A) : 0.33
           ESD FROM SIGMAA
REMARK
                                        (A) : 5.00
           LOW RESOLUTION CUTOFF
REMARK
REMARK
           CROSS-VALIDATED ESTIMATED COORDINATE ERROR.
REMARK
            ESD FROM C-V LUZZATI PLOT
                                      (A) : 0.45
REMARK
                                        (A) : 0.29
            ESD FROM C-V SIGMAA
REMARK
REMARK
           RMS DEVIATIONS FROM IDEAL VALUES.
REMARK
                                        (A) : 0.008
            BOND LENGTHS
REMARK
                                  (DEGREES) : 1.1
            BOND ANGLES
REMARK
                                 (DEGREES) : 18.9
            DIHEDRAL ANGLES
REMARK
                                 (DEGREES) : 0.73
            IMPROPER ANGLES
REMARK
REMARK
           ISOTROPIC THERMAL MODEL : RESTRAINED
REMARK
REMARK
                                                 RMS
                                                        SIGMA
        3 ISOTROPIC THERMAL FACTOR RESTRAINTS.
REMARK
                                        (A**2) : 1.46 ; 1.50
        3 MAIN-CHAIN BOND
REMARK
                                     (A**2) : 2.54 ; 2.00
        3 MAIN-CHAIN ANGLE
REMARK
                                        (A**2): 2.06; 2.00
        3 SIDE-CHAIN BOND
REMARK
                                                         2.50
                                      (A**2) :
                                                 3.09;
            SIDE-CHAIN ANGLE
REMARK
REMARK
        3 NCS MODEL : NONE
REMARK
REMARK
                                                  RMS
        3 NCS RESTRAINTS.
REMARK
SIGMA/WEIGHT
                                         (A) : NULL ; NULL
            GROUP 1 POSITIONAL
REMARK
                                       (A**2) : NULL ; NULL
            GROUP 1 B-FACTOR
REMARK
REMARK
        3 PARAMETER FILE 1 : MSI CNX TOPPAR/protein_rep.param
REMARK
        3 PARAMETER FILE 2 : MSI CNX TOPPAR/water_rep.param
REMARK
        3 PARAMETER FILE 3 : ligands.par
REMARK
           TOPOLOGY FILE 1 : MSI CNX TOPPAR/protein.top
REMARK
                             : MSI CNX TOPPAR/water.top
           TOPOLOGY FILE 2
REMARK
                              : ligands.top
        3 TOPOLOGY FILE 3
REMARK
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        3 OTHER REFINEMENT REMARKS: NULL
REMARK
        1 A 261 PRO THR LEU VAL SER LEU LEU GLU VAL ILE GLU PRO GLU
SEQRES
        2 A 261 VAL LEU TYR ALA GLY TYR ASP SER SER VAL PRO ASP SER
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                 THR TRP ARG ILE MET THR THR LEU ASN MET LEU GLY GLY
             261
         3 A
SEQRES
        4 A 261 ARG GLN VAL ILE ALA ALA VAL LYS TRP ALA LYS ALA ILE
SEQRES
                  PRO GLY PHE ARG ASN LEU HIS LEU ASP ASP GLN MET THR
SEQRES
             261
         5 A
                  LEU LEU GLN TYR SER TRP MET SER LEU MET ALA PHE ALA
             261
SEQRES
         6 A
                  LEU GLY TRP ARG SER TYR ARG GLN SER SER ALA ASN LEU
             261
SEQRES
         7 A
                  LEU CYS PHE ALA PRO ASP LEU ILE ILE ASN GLU GLN ARG
             261
SEQRES
         8 A
                  MET THR LEU PRO ASP MET TYR ASP GLN CYS LYS HIS MET
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         9 A
                  LEU TYR VAL SER SER GLU LEU HIS ARG LEU GLN VAL SER
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             261
        10 A
                  TYR GLU GLU TYR LEU CYS MET LYS THR LEU LEU LEU
             261
SEQRES
        11 A
                  SER SER VAL PRO LYS ASP GLY LEU LYS SER GLN GLU LEU
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SEQRES
        12 A
                  PHE ASP GLU ILE ARG MET THR TYR ILE LYS GLU LEU GLY
             261
SEQRES
        13 A
                  LYS ALA ILE VAL LYS ARG GLU GLY ASN SER SER GLN ASN
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SEQRES
        14 A
                  TRP GLN ARG PHE TYR GLN LEU THR LYS LEU LEU ASP SER
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SEQRES
        15 A
                  MET HIS GLU VAL VAL GLU ASN LEU LEU ASN TYR CYS PHE
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SEQRES
                  GLN THR'PHE LEU ASP LYS THR MET SER ILE GLU PHE PRO .
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        17 A
SEQRES
                  GLU MET LEU ALA GLU ILE ILE THR ASN ASN ILE LYS LYS
             261
SEQRES
        18 A
             261 LEU LEU PHE HIS GLN 486 HXD HXD HXD HOH HOH HOH
SEQRES
        19 A
                  20 A 261
SEQRES
        21 A 261 HOH
SEQRES
                          39.120 90.00 90.00 P 21 21 2
         74.541 109.686
CRYST1
                                               0.00000
                               0.000000
                    0.000000
            1.000000
ORIGX1
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                               0.000000
                     1.000000
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ORIGX2
                                               0.00000
                               1.000000
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ORIGX3
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                    0.000000
SCALE1
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            0.000000 0.009117
SCALE2
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SCALE3	0.000000 0.000000	0.025562 0.00000	
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1 CB PRO A 530 2 CG PRO A 530 3 C PRO A 530 4 O PRO A 530 5 N PRO A 530 6 CD PRO A 530 7 CA PRO A 531 9 CA THR A 531 10 CB THR A 531 11 OG1 THR A 531 12 CG2 THR A 531 13 C THR A 531 14 O THR A 531 15 N LEU A 532 16 CA LEU A 532 17 CB LEU A 532 18 CG LEU A 532 19 CD1 LEU A 532 19 CD1 LEU A 532 20 CD2 LEU A 532 21 C LEU A 533 24 CA VAL A 533 25 CB VAL A 533 26 CG1 VAL A 533 27 CG2 VAL A 533 26 CG1 VAL A 533 27 CG2 VAL A 533 28 C VAL A 533 29 O VAL A 533 26 CG1 VAL A 533 27 CG2 VAL A 533 30 N SER A 534 31 CA SER A 534 32 CB SER A 534 33 OG SER A 534 34 C SER A 534 35 O SER A 534 36 N LEU A 535 37 CA LEU A 535 38 CB LEU A 535 39 CG LEU A 535 40 CD1 LEU A 535 41 CD2 LEU A 535 42 C LEU A 535 44 N LEU A 535 45 CA LEU A 536 46 CB LEU A 536 47 CG LEU A 536 48 CD1 LEU A 536 49 CD2 LEU A 536 49 CD2 LEU A 536	0.065	ronannonasonnonasonnannannannannannannannannannannannanna
	51 O LEU A 536 52 N GLU A 537 53 CA GLU A 537 54 CB GLU A 537 55 CG GLU A 537 56 CD GLU A 537 57 OE1 GLU A 537 58 OE2 GLU A 537 59 C GLU A 537 60 O GLU A 537 61 N VAL A 538	-1.063 31.849 -6.358 1.00 33.62 -1.004 34.094 -6.231 1.00 34.84 -2.182 34.155 -5.379 1.00 35.83 -2.396 35.562 -4.831 1.00 36.63 -3.583 35.631 -3.872 1.00 41.37 -3.783 37.007 -3.263 1.00 43.48 -2.768 37.693 -3.006 1.00 45.77 -4.950 37.392 -3.025 1.00 43.83 -3.446 33.722 -6.106 1.00 35.89 -4.244 32.945 -5.576 1.00 36.35 -4.244 32.945 -5.576 1.00 34.25 -3.633 34.221 -7.322 1.00 34.53	O N C C C C C C C O N C
ATOM	62 CA VAL A 538	-4.820 33.869 -8.061 1.00 34.53	

ATOM 65 CG2 VAL A 538	ATOM ATOM	63 64	CB CG1	VAL A 538 VAL A 538	-4.948 -4.662	34.699 36.168	-9.375 -9.083	1.00 36.03 1.00 36.24	C
ATOM 66 C VAL A 538 - 5.865 31.790 - 8.333 1.00 35.66 O ATOM 68 N ILE A 539 - 3.776 30.325 - 8.998 1.00 32.13 N ATOM 69 CA ILE A 539 - 3.776 30.325 - 8.998 1.00 32.13 N ATOM 70 CB ILE A 539 - 2.562 29.891 1.00 31.87 C ATOM 70 CB ILE A 539 - 2.562 29.891 1.00 31.87 C ATOM 71 CG2 ILE A 539 - 2.562 29.891 1.00 31.87 C ATOM 72 CG1 ILE A 539 - 2.523 30.718 - 11.146 1.00 31.58 C ATOM 73 CD1 ILE A 539 - 2.523 30.718 - 11.146 1.00 31.59 C ATOM 73 CD1 ILE A 539 - 1.264 30.003 - 9.076 1.00 31.94 C ATOM 73 CD1 ILE A 539 - 1.264 30.003 - 9.0774 1.00 26.75 C ATOM 74 C ILE A 539 - 3.812 29.489 - 7.761 1.00 31.94 C ATOM 75 O ILE A 539 - 4.004 28.230 - 7.761 1.00 32.56 O ATOM 75 O ILE A 539 - 4.004 28.230 - 7.761 1.00 32.56 O ATOM 76 N GLO A 540 - 3.654 29.274 - 5.455 1.00 32.96 C ATOM 77 CA GLO A 540 - 3.654 29.274 - 5.455 1.00 32.05 C ATOM 78 CB GLU A 540 - 3.430 30.274 - 4.154 1.00 31.62 C ATOM 79 CB GLU A 540 - 3.430 30.275 - 2.802 1.00 31.44 C ATOM 80 CD GLU A 540 - 2.309 28.454 - 2.407 1.00 32.16 C ATOM 80 CD GLU A 540 - 2.309 28.454 - 2.407 1.00 32.16 C ATOM 81 ODI GLU A 540 - 2.307 27.677 1.005 1.00 34.64 O ATOM 82 CD GLU A 540 - 1.410 28.366 - 3.557 1.00 32.18 C ATOM 83 C GLU A 540 - 1.410 28.366 - 3.557 1.00 32.18 C ATOM 81 ODI GLU A 540 - 2.307 27.677 1.005 1.00 34.64 O ATOM 80 CD GLU A 540 - 1.410 28.366 - 3.557 1.00 32.28 C ATOM 83 C GLU A 540 - 1.410 28.366 - 3.557 1.00 32.28 C ATOM 83 C GLU A 540 - 1.410 28.366 - 3.557 1.00 32.278 C ATOM 80 CD GRO A 541 - 3.738 26.568 - 3.557 1.00 32.278 C ATOM 80 CD GRO A 541 - 3.738 26.568 - 4.958 1.00 32.278 C ATOM 80 CD GRO A 541 - 3.738 26.568 - 4.958 1.00 32.278 C ATOM 80 CD GRO A 541 - 3.738 26.568 - 4.958 1.00 31.46 C ATOM 80 CD GRO A 541 - 3.738 26.568 - 4.958 1.00 31.94 C ATOM 90 C GRO A 541 - 3.738 26.568 - 4.958 1.00 31.94 C ATOM 90 C GRO A 541 - 3.738 26.568 - 4.958 1.00 31.94 C ATOM 90 C GRO A 541 - 3.738 26.568 - 4.958 1.00 31.94 C ATOM 90 C GRO A 541 - 3.738 26.568 - 4.958 1.00 31.94 C ATOM 90 C GRO A 541 - 3.738 26.568 - 4.958 1.00 31.94 C ATOM 90 C GRO A 541 -					_	• • • •	-10.449	1.00 36.46	C
ATOM 68 N ILE A 539 -3.752 31.749 -8.675 1.00 32.13 N ATOM 69 CA ILE A 539 -3.776 30.325 -8.981 1.00 31.87 C ATOM 69 CA ILE A 539 -3.776 30.325 -8.981 1.00 31.87 C ATOM 71 CG2 ILE A 539 -2.552 29.891 -9.861 1.00 32.38 C ATOM 71 CG2 ILE A 539 -2.552 29.891 -9.861 1.00 32.38 C ATOM 72 CG1 ILE A 539 -2.552 29.891 -9.861 1.00 32.38 C ATOM 73 CD1 ILE A 539 -1.264 30.003 -9.061 1.00 29.84 C ATOM 73 CD1 ILE A 539 -0.029 29.484 -9.776 1.00 29.84 C ATOM 74 C ILE A 539 -0.029 29.484 -9.776 1.00 31.59 C ATOM 75 O ILE A 539 -4.004 28.230 -7.870 1.00 32.55 O ATOM 75 O ILE A 539 -4.004 28.230 -7.870 1.00 32.55 O ATOM 75 N GLD A 540 -3.631 30.036 -6.588 1.00 32.95 N ATOM 77 CA GLD A 540 -3.631 30.036 -6.588 1.00 32.90 N ATOM 79 CG GLU A 540 -3.3430 30.213 -4.134 1.00 31.92 C ATOM 79 CG GLU A 540 -3.3430 30.213 -4.134 1.00 31.92 C ATOM 80 CD GLU A 540 -3.3430 30.213 -4.134 1.00 31.62 C ATOM 81 OEI GLU A 540 -2.339 28.454 -2.667 1.00 32.18 C ATOM 81 OEI GLU A 540 -2.339 28.454 -2.667 1.00 32.18 C ATOM 83 C GLU A 540 -4.996 28.534 -5.220 1.00 31.44 C ATOM 83 C GLU A 540 -4.996 28.534 -5.220 1.00 31.84 C ATOM 84 O GLU A 540 -4.996 28.534 -5.220 1.00 32.18 C ATOM 85 N PRO A 541 -4.951 27.203 -5.024 1.00 32.88 N ATOM 85 N PRO A 541 -4.951 27.203 -5.024 1.00 32.89 N ATOM 86 CD PRO A 541 -4.951 27.203 -5.024 1.00 32.89 N ATOM 87 CA PRO A 541 -4.951 27.203 -5.024 1.00 32.89 N ATOM 89 CG FRO A 541 -6.150 26.367 -4.896 1.00 31.46 C ATOM 89 CG FRO A 541 -6.150 26.367 -4.896 1.00 31.46 C ATOM 89 CG FRO A 541 -6.150 26.367 -4.896 1.00 31.47 C ATOM 99 C GLU A 540 -4.996 28.534 -5.220 1.00 32.79 C ATOM 99 C GLU A 540 -4.996 28.534 -5.220 1.00 32.79 C ATOM 99 C GLU A 540 -4.996 28.534 -5.220 1.00 32.79 C ATOM 99 C GLU A 542 -9.404 -9.409 28.509 1.00 33.79 C ATOM 99 C GLU A 542 -9.409 2.409	MOTA				•				
ATOM 68 CA LIE A 539								_	
ATOM 710 CB ILE X 5339 -2.552 29.891 -9.861 1.00 31.58 C ATOM 71 CGI ILE A 5339 -1.264 30.003 -9.046 1.00 31.58 C ATOM 73 CDI ILE A 5339 -1.264 30.003 -9.046 1.00 29.84 C ATOM 74 C ILE A 5339 -1.264 30.003 -9.046 1.00 26.75 C ATOM 74 C ILE A 5339 -3.812 29.439 -7.761 1.00 31.58 C ATOM 75 O ILE A 5339 -4.004 28.230 -7.8701 1.00 31.59 C ATOM 75 N GLU A 540 -3.631 30.036 -6.588 1.00 31.90 N ATOM 76 N GLU A 540 -3.631 30.036 -6.588 1.00 31.90 N ATOM 77 CA GLU A 540 -3.631 30.036 -6.588 1.00 31.90 N ATOM 79 CG GLU A 540 -3.430 30.213 -4.154 1.00 31.62 C ATOM 80 CD GLU A 540 -3.398 29.515 -2.802 1.00 31.44 C ATOM 81 OEI GLU A 540 -2.309 28.454 -2.687 1.00 32.18 C ATOM 81 OEI GLU A 540 -2.309 28.454 -2.687 1.00 32.28 C ATOM 82 OE2 GLU A 540 -2.357 27.677 -1.705 1.00 34.64 O ATOM 83 C GLU A 540 -2.357 27.677 -1.705 1.00 34.64 O ATOM 84 O GLU A 540 -2.396 -3.557 1.00 32.25 C ATOM 85 N PRO A 541 -4.996 28.534 -5.220 1.00 32.48 N ATOM 85 N PRO A 541 -4.991 27.203 -5.024 1.00 32.48 N ATOM 85 N PRO A 541 -4.991 27.203 -5.024 1.00 32.48 N ATOM 86 C C RN A 541 -4.991 27.203 -5.024 1.00 32.48 N ATOM 87 CA PRO A 541 -4.991 27.203 -5.024 1.00 32.48 N ATOM 89 C G RN A 541 -4.268 25.015 -5.385 1.00 31.94 C ATOM 89 C G RN A 541 -6.575 24.962 -4.690 1.00 31.46 C ATOM 89 C G RN A 541 -6.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C PRO A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C RN A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C RN A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C RN A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C RN A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C RN A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C RN A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C RN A 541 -6.150 26.367 -4.896 1.00 31.94 C ATOM 90 C RN A 542 -8.888 26.384 -4.958 1.00 31.71 C ATOM 90 C RN A 542 -8.888 26.484 -4.001 1.00 31.50 N ATOM 90 C RN A 542 -8.888 26.484 -4.001 1.00 31.50 N ATOM 90 C RN A 542 -8.888 26.484 -4.001 1.00 31.71 C ATOM 90 C RN A 542 -8.888 26.484 -4.001									C
ATOM 71 CG2 ILE A 539 -2.523 30.718 -11.14b 1.00 31.38 C ATOM 72 CG1 ILE A 539 -0.029 29.484 -9.774 1.00 29.84 C ATOM 73 CD1 ILE A 539 -0.029 29.484 -9.774 1.00 29.84 C ATOM 74 C ILE A 539 -0.029 29.484 -9.7761 1.00 31.94 C ATOM 75 O ILE A 539 -4.004 28.230 -7.870 1.00 31.94 C ATOM 75 O ILE A 539 -4.004 28.230 -7.870 1.00 31.94 C ATOM 77 CA GLO A 540 -3.631 30.036 -6.588 1.00 31.90 N ATOM 77 CA GLO A 540 -3.631 30.036 -6.588 1.00 31.90 N ATOM 77 CA GLO A 540 -3.431 30.213 -4.154 1.00 31.62 C ATOM 78 CG GLO A 540 -3.430 30.213 -4.154 1.00 31.62 C ATOM 80 CD GLO A 540 -2.399 28.454 -2.687 1.00 32.18 C ATOM 81 CEI GLO A 540 -2.399 28.454 -2.687 1.00 32.18 C ATOM 82 CEZ GLO A 540 -2.399 28.454 -2.687 1.00 32.18 C ATOM 82 CEZ GLO A 540 -4.996 28.594 -5.220 1.00 32.48 C ATOM 84 O GLO A 540 -4.996 28.594 -5.220 1.00 32.48 N ATOM 86 CD PRO A 541 -4.951 27.203 -5.094 1.00 32.48 N ATOM 86 CD PRO A 541 -4.951 27.203 -5.094 1.00 32.48 N ATOM 86 CD PRO A 541 -3.738 26.368 -4.958 1.00 32.48 N ATOM 87 CA PRO A 541 -5.575 24.962 -4.690 1.00 31.46 C ATOM 80 CG PRO A 541 -5.575 24.962 -4.690 1.00 31.46 C ATOM 80 CG PRO A 541 -5.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.755 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.276 25.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.276 25.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.710 26.745 -3.377 1.00 31.94 C ATOM 90 C PRO A 541 -5.276 25.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.10 27.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.10 27.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.10 27.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.10 27.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.10 27.575 24.962 -4.690 1.00 31.46 C ATOM 90 C PRO A 541 -5.10 27.575 24.962 -4.690 1.00 31.90 C ATOM 90 C PRO A 541						29.891			
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ATOM 73 CDI ILE A 5399 -3.812 29.439 -7.761 1.00 31.94 C ATOM 75 O	ATOM								
ATOM 76 N GLU A 540									
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ATOM 81 OE1 GIU A 540									
ATOM 82 OC2 GLU A 540							•		_
ATOM 83 C GLU A 540			OE2						
ATOM 85 N PRO A 541 -4.951 27.203 -5.024 1.00 32.48 N ATOM 86 CD PRO A 541 -6.150 26.366 -4.958 1.00 31.46 C ATOM 87 CA PRO A 541 -6.150 26.367 -4.896 1.00 31.46 C ATOM 88 CB PRO A 541 -4.268 25.015 -5.385 1.00 31.94 C ATOM 89 CG PRO A 541 -4.268 25.015 -5.385 1.00 31.94 C ATOM 90 C PRO A 541 -6.715 27.265 -2.735 1.00 31.94 C ATOM 91 O PRO A 541 -6.715 27.265 -2.735 1.00 31.91 C ATOM 92 N GLU A 542 -8.388 26.484 -4.001 1.00 34.35 N ATOM 92 N GLU A 542 -9.407 26.735 -2.995 1.00 33.34 C ATOM 94 CB GLU A 542 -10.801 26.754 -3.636 1.00 35.18 C ATOM 95 CG GG GLU A 542 -11.230 28.120 -4.144 1.00 40.83 C ATOM 96 CD GLU A 542 -11.230 28.120 -4.144 1.00 44.57 C ATOM 97 OE1 GLU A 542 -12.267 28.032 -5.248 1.00 44.57 C ATOM 99 C GLU A 542 -12.2032 28.607 -6.333 1.00 47.56 C ATOM 99 C GLU A 542 -12.032 28.607 -6.333 1.00 47.56 C ATOM 99 C GLU A 542 -9.283 25.557 -2.042 1.00 31.02 C ATOM 100 O GLU A 542 -8.798 24.489 -2.433 1.00 29.63 N ATOM 101 N VAL A 543 -9.704 25.756 -0.798 1.00 29.63 N ATOM 102 CA VAL A 543 -9.633 24.703 0.199 1.00 30.09 C ATOM 103 CB VAL A 543 -9.633 24.703 0.199 1.00 30.09 C ATOM 104 CG I VAL A 543 -9.633 24.703 0.199 1.00 30.09 C ATOM 105 CG2 VAL A 543 -9.633 24.703 0.199 1.00 34.84 C ATOM 106 C VAL A 543 -9.630 24.155 2.639 1.00 28.98 C ATOM 107 C VAL A 543 -9.630 24.155 2.639 1.00 28.98 C ATOM 107 C VAL A 543 -9.630 24.155 2.639 1.00 28.98 C ATOM 107 C VAL A 543 -11.922 24.110 -0.144 1.00 29.81 C ATOM 107 C VAL A 543 -11.922 24.110 -0.144 1.00 29.81 C ATOM 107 C VAL A 543 -11.922 24.110 -0.144 1.00 29.86 C ATOM 107 C VAL A 543 -11.922 24.110 -0.144 1.00 29.81 C ATOM 107 C VAL A 543 -11.922 24.110 -0.144 1.00 29.81 C ATOM 107 C VAL A 543 -11.922 24.110 -0.144 1.00 29.88 C ATOM 107 C VAL A 543 -11.922 24.110 -0.144 1.00 29.88 C ATOM 107 C VAL A 543 -11.922 24.110 -0.144 1.00 29.88 C ATOM 110 C C LEU A 544 -11.395 20.961 1.90 28.80 N N ATOM 109 C C LEU A 544 -11.395 20.961 1.90 28.80 N N ATOM 109 C C LEU A 544 -11.395 20.961 1.90 28.80 N N ATOM 110 C C LEU A 544 -11.395 20.961 1.90 28.80 N N ATOM 110									
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ATOM 88 CB PRO A 541			-						
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ATOM 126 C TYR A 545 -13.526 18.204 1.944 1.00 28.67 C ATOM 127 O TYR A 545 -13.223 17.631 0.901 1.00 31.08 O ATOM 127 O TYR A 545 -13.223 17.631 0.901 1.00 28.25 N							3.655	1.00 28.97	
ATOM 127 O TYR A 545 -13.223 17.631 0.901 1.00 31.00 N				TYR A 545	-13.526				
ATOM 128 N ALA A 546 -13.600 17.577 5.115 1.00 20.55	MOTA								
	MOTA	128	N	АLA А 546	-13.000	11.311	J. 11J	_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2.

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					• •	212	16 152	3.225	1.00 30.01	С
MOTA	129	CA	ALA A		-13.		16.153 15.836	4.607	1.00 28.48	С
MOTA	130	CB	ALA A		-12. -14.		15.294	2.944	1.00 33.68	C
ATOM	131	C	ALA A		-14.		14.244	2.299	1.00 34.22	0
ATOM	132	0	ALA A		-15.		15.747	3.427	1.00 35.63	N
ATOM	133	N	GLY A		-16.		14.999	3.238	1.00 38.13	С
ATOM	134	CA	GLY A		-17.		14.122	4.454	1.00 42.00	С
ATOM	135	C	GLY A		-17.		13.231	4.463	1.00 43.45	0
ATOM	136	0	TYR A		-16.		14.389	5.490	1.00 44.22	N
ATOM	137	N CA	TYR A	_	-16.		13.645	6.744	1.00 45.12	C
MOTA	138 139	CB	TYR A		-15.		13.808	7.492	1.00 41.21	C
MOTA	140	CG	TYR A		-14.	909	12.932	8.717	1.00 38.15	C
ATOM ATOM	141	CD1	TYR A		-15.	465	13.304	9.943	1.00 37.55	C
ATOM	142	CE1	TYR A		-15	311	12.503	11.078	1.00 36.26 1.00 35.84	C C
ATOM	143	CD2	TYR A	548	-14.		11.733	8.655	1.00 35.84 1.00 36.04	C
ATOM	144	CE2	TYR A		-14		10.924	9.778 10.992	1.00 36.31	Č
ATOM	145	CZ	TYR A		-14		11.315 10.538	10.332	1.00 34.00	Ō
MOTA	146	OH	TYR A			. 413	14.156	7.608	1.00 48.53	С
MOTA	147	C	TYR A			.537 .638	15.362	7.871	1.00 49.58	0
ATOM	148	0	TYR A			.409	13.248	8.040	1.00 51.49	N
ATOM	149	N		A 549 A 549		.520	13.653	8.888	1.00 54.98	. С
ATOM	150	CA CB		A 549		.853	13.108	8.361	1.00 57.65	C
ATOM	151 152	CG	ASP A			.055	13.875	8.917	1.00 59.27	C
ATOM ATOM	153		ASP F			.281	13.837	10.145	1.00 57.39	0
ATOM	154	OD2			-22	.770	14.526	8.122	1.00 62.37	C
ATOM	155	C	ASP F	1 549		.315	13.217	10.335	1.00 55.61 1.00 53.35	Ö
ATOM	156	0		1 549		.085	12.039	10.634 11.219	1.00 57.27	N
ATOM	157	N		¥ 550		.395	14.206	12.650	1.00 58.87	C
MOTA	158	CA		A 550		.227	14.024 15.397	13.314	1.00 58.42	C
MOTA	159	CB		A 550		.162 .270	16.189	12.923	1.00 56.75	0
ATOM	160	OG		A 550 A 550		.348	13.194	13.289	1.00 61.02	С
ATOM	161	C O		A 550		.299	12.892	14.485	1.00 61.52	0
ATOM	162 163	N		A 551		.353	12.831	12.495	1.00 62.10	N
ATOM ATOM	164	CA		A 551	-22	.476	12.044	12.996	1.00 63.26	C C
ATOM	165	CB		A 551		.420	11.668	11.847	1.00 63.85	O C.
ATOM	166	OG	SER A	A 551		.747	10.933	10.836	1.00 65.85 1.00 63.82	C
ATOM	167	C		A 551		.960	10.786	13.683 14.915	1.00 63.02	Õ
MOTA	168	0		A 551		.984	10.680 9.834	12.881	1.00 63.85	N
MOTA	169	N		A 552		.494	8.592	13.416	1.00 63.41	С
MOTA	170	.CA		A 552 A 552		.630	7.585	12.290	1.00 64.14	С
ATOM	171	CB CG1		A 552		.101	6.289	12.884	1.00 64.09	
ATOM	172 173	CG2	_	A 552		.879	7.320	11.458	1.00 65.52	
ATOM ATOM	174	C		A 552	-19	.665	8.926	14.168	1.00 61.57	C
ATOM	175	Ō		A 552		.848	9.728	13.703	1.00 61.73 1.00 59.49	
ATOM	176	N		A 553		.476	8.321	15.349	1.00 59.31	
MOTA	177	CD	_	A 553		.368	7.354 8.567	16.014 16.157	1.00 57.83	C
ATOM	178	CA		A 553		.279	7.522	17.267	1.00 59.00	С
ATOM	179	CB		A 553		.886	7.410	17.446	1.00 59.06	
ATOM	180	CG		A 553 A 553		.993	8.416	15.345	1.00 55.03	
MOTA	181	C 0		A 553		.949	7.673	14.361	1.00 54.34	
MOTA	182 183	N		A 554		.948	9.125	15.755	1.00 52.28	
MOTA MOTA	184	CA		A 554	-14	.679	9.042	15.046	1.00 50.09	
ATOM	185		ASP .		-13	.626	.: 9.941	15.690	1.00 50.05	
ATOM	186	CG		A 554		.965	11.397	15.566	1.00 51.10 1.00 53.34	
ATOM	187		ASP	A 554		.499	11.777	14.504	1.00 53.34	
ATOM	188	OD2	ASP .	A 554		3.694	12.161	16.519 15.003	1.00 32.00	
ATOM	189	C		A 554		.153	7.621 6.774	15.801	1.00 46.96	
ATOM	190	0		A 554		1.538 3.258	7.379	14.061	1.00 45.53	N
ATOM	191	N		A 555		2.653	6.073	13.878		С
ATOM	192	CA		A 555 A 555		3.616		13.115	1.00 42.57	C.
MOTA	193 194	CB OG		A 555		3.003		12.781		. 0
ATOM	724			_ 						

	4.0.5	_	00D B CEE	-11.378	6.287	13.071	1.00 43.51	С
ATOM	195	C	SER A 555	-11.378	7.015	12.078	1.00 44.45	0
MOTA	196	O N	SER A 555 THR A 556	-10.273	5.683	13.498	1.00 42.04	N
MOTA	197 198	CA	THR A 556	-9.032	5.841	12.762	1.00 42.19	C
ATOM ATOM	199	CB	THR A 556	-7.881	5.035	13.406	1.00 42.32	C
ATOM	200	OG1	THR A 556	-7.516	5.646	14.651	1.00 42.04	0
ATOM	201	CG2	THR A 556	-6.659	5.006	12.499	1.00 41.12	C
ATOM	202	C	THR A 556	-9.293	5.367	11.337	1.00 42.74	С 0
ATOM	203	0	THR A 556	-8.766	5.928	10.378	1.00 42.87 1.00 43.45	N
ATOM	204	N	TRP A 557	-10.144	4.354	11.204	1.00 43.43	Ĉ
MOTA	205	CA	TRP A 557	-10.496	3.813	9.896 10.035	1.00 46.82	Ċ
ATOM	206	CB	TRP A 557	-11.404	2.590 2.032	8.696	1.00 52.07	C
MOTA	207	CG	TRP A 557	-11.796 -12.973	2.357	7.936	1.00 53.78	С
ATOM	208	CD2	TRP A 557 TRP A 557	-12.874	1.674	6.699	1.00 54.50	С
MOTA	209	CE2 CE3	TRP A 557	-14.099	3.162	8.177	1.00 55.10	С
MOTA	210 211	CD1	TRP A 557	-11.059	1.188	7.912	1.00 52.72	C
ATOM ATOM	212	NE1	TRP A 557	-11.697	0.970	6.714	1.00 53.41	N
ATOM	213	CZ2	TRP A 557	-13.860	1.770	5.701	1.00 55.60	C
ATOM	214	CZ3	TRP A 557	-15.082	3.260	7.183	1.00 56.65 1.00 56.87	C
ATOM	215	CH2	TRP A 557	-14.953	2.566	5.961	1.00 56.87 1.00 42.69	č
MOTA	216	C	TRP A 557	-11.217	4.843	9.027 7.889	1.00 42.73	Ö
ATOM	217	0	TRP A 557	-10.820 -12.289	5.099 5.422	9.558	1.00 40.54	N
ATOM	218	N	ARG A 558	-12.269	6.398	8.798	1.00 39.82	С
ATOM	219	CA	ARG A 558 ARG A 558	-14.308	6.803	9.567	1.00 41.39	C
ATOM	220 221	CB CG	ARG A 558	-14.995	5.631	10.230	1.00 44.29	C
MOTA MOTA	222	CD	ARG A 558	-16.424	5.936	10.670	1.00 47.40	C
ATOM	223	NE	ARG A 558	-16.569	7.212	11.370	1.00 48.53	N
ATOM	224	CZ	ARG A 558	-16.818	8.370	10.763	1.00 49.38	C N
MOTA	225	NH1	ARG A 558	-16.944	8.410	9.443	1.00 49.04 1.00 49.31	N
MOTA	226	NH2		-16.965	9.483	11.476 8.457	1.00 49.31 1.00 37.44	C
ATOM	227	С	ARG A 558	-12.219	7.629 8.157	7.358	1.00 37.53	Ö
ATOM	228	0	ARG A 558	-12.325 -11.395	8.084	9.397	1.00 35.98	N
ATOM	229	N	ILE A 559 ILE A 559	-10.550	9.256	9.176	1.00 34.05	C
ATOM	230 231	CA CB	ILE A 559	-9.832	9.695	10.468	1.00 33.19	С
ATOM ATOM	232	CG2		-8.828	10.805	10.153	1.00 30.68	C
ATOM	233	CG1		-10.867	10.148	11.503	1.00 31.75	C
ATOM	234	CD1		-10.279	10.591	12.840	1.00 28.48	C
ATOM	235	С	ILE A 559	-9.497	9.019	8.093	1.00 33.57 1.00 35.06	0
MOTA	236	0	ILE A 559	-9.323	9.858	7.211 8.153	1.00 33.00	N
MOTA	237	N	MET A 560	-8.799 -7.775	7.885 7.568	7.151	1.00 31.33	С
MOTA	238	CA	MET A 560 MET A 560	-6.939	6.360	7.589	1.00 31.36	С
MOTA	239	CB CG	MET A 560 MET A 560	-6.173	6.558	8.888	1.00 32.80	С
ATOM	240 241	SD	MET A 560	-5.149	8.043	8.902	1.00 38.45	S
MOTA MOTA	242	CE	MET A 560	-4.032	7.699	7.487	1.00 31.35	C
ATOM	243	C	MET A 560	-8.392	7.282	5.782	1.00 29.65	C
ATOM	244	0	MET A 560	-7.797	7.570	4.745	1.00 30.30 1.00 28.64	N
ATOM	245	N	THR A 561	-9.584	6.703	5.780 4.533	1.00 28.04	C
MOTA	246	CA	THR A 561	-10.269	6.408 5.552	4.789	1.00 29.96	Ċ
ATOM	247	CB	THR A 561	-11.524 -11.130	4.292	5.354	1.00 31.59	0
ATOM	248	OG1		-12.276	5.307	3.489	1.00 30.13	C
MOTA	249	CG2 C	THR A 561	-10.672	7.731	3.876	1.00 29.38	С
MOTA	250 251		'THR A 561	-10.548.		2.661 [.]		0
MOTA MOTA	252	Ŋ	THR A 562	-11.149	8.663	4.695	1.00 28.92	N
ATOM	253	CA	THR A 562	-11.553	9.974	4.204	1.00 28.99	C
ATOM	254	СВ	THR A 562	-12.219	10.831	5.319	1.00 30.42	C 0
ATOM	255	OG1		-13.428	10.196	5.758 4.794	_	C
MOTA	256	CG2		-12.547	12.230	3.691	1.00 23.72	C
MOTA	257	C	THR A 562	-10.323 -10.322	10.708 11.245			Ō
MOTA	258	0	THR A 562 LEU A 563	-10.322 -9.273	10.722			N.
MOTA	259	N	LEU A 563	-8.048	11.395			С
ATOM	260	CA	750 11 000	2.234				

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ATOM	261 CB LEU A 563	-6.988	11.272	5.198 6.405	1.00 24.48 1.00 21.88	C
ATOM	262 CG LEU A 563	-7.107	12.198	7.336	1.00 20.16	C
ATOM	263 CD1 LEU A 563	-5.930	11.971	5.926	1.00 23.50	C
ATOM	264 CD2 LEU A 563	-7.123	13.639 10.823	2.798	1.00 26.34	С
ATOM	265 C LEU A 563	-7.511 6.805	11.508	2.056	1.00 26.41	0
MOTA	266 O LEU A 563	-6.805 -7.847	9.573	2.504	1.00 26.91	N
MOTA	267 N ASN A 564	-7.353	8.983	1.272	1.00 28.34	C
MOTA	268 CA ASN A 564 269 CB ASN A 564	-7.551	7.472	1.288	1.00 30.39	C
MOTA	5 - T C A	-6.687	6.775	0.254	1.00 33.88	C
MOTA		-7.044	6.704	-0.930	1.00 31.52	O N
MOTA	271 OD1 ASN A 564 272 ND2 ASN A 564	-5.522	6.277	0.692	1.00 35.10 1.00 27.58	C
ATOM ATOM	273 C ASN A 564	-8.022	9.603	0.047	1.00 27.58 1.00 26.59	ŏ
ATOM	274 O ASN A 564	-7.360	9.887	-0.958 0.143	1.00 28.68	N
ATOM	275 N MET A 565	-9.329	9.832	-0.950	1.00 29.27	C
ATOM	276 CA MET A 565	-10.085	10.442 10.350	-0.697	1.00 33.18	С
MOTA	277 CB MET A 565	-11.595 -12.119	8.932	-0.554	1.00 39.91	С
MOTA	278 CG MET A 565	-11.465	7.848	-1.856	1.00 49.04	S
ATOM	279 SD MET A 565 280 CE MET A 565	-12.812	7.910	-3.109	1.00 46.85	C
ATOM		-9.705	11.908	-1.095	1.00 27.69	C
MOTA	281 C MET A 565 282 O MET A 565	-9.655	12.430	-2.206	1.00 28.50	O N
MOTA	283 N LEU A 566	-9.440	12.567	0.033	1.00 25.16 1.00 21.88	C
ATOM ATOM	284 CA LEU A 566	-9.073	13.976	0.033	1.00 21.88 1.00 21.21	Č
ATOM	285 CB LEU A 566	-9.158	14.550	1.453 1.609	1.00 20.33	С
MOTA	286 CG LEU A 566	-8.845	16.046 16.868	0.789	1.00 17.51	С
MOTA	287 CD1 LEU A 566	-9.831 -8.901	16.437	3.084	1.00 17.99	С
MOTA	288 CD2 LEU A 566	-7.674	14.179	-0.522	1.00 20.32	С
MOTA	289 C LEU A 566 290 O LEU A 566	-7.433	15.120	-1.278	1.00 20.01	0
ATOM	270	-6.752	13.298	-0.143	1.00 18.99	И С
ATOM	291 N GLY A 567 292 CA GLY A 567	-5.388	13.403	-0.634	1.00 18.66 1.00 19.42	C
ATOM ATOM	293 C GLY A 567	-5.376	13.175	-2.132	1.00 19.42 1.00 19.90	Ö
MOTA	294 O GLY A 567	-4.613	13.791	-2.877 -2.586	1.00 18.70	N
ATOM	295 N GLY A 568	-6.236	12.278 12.030	-4.005	1.00 19.75	C
MOTA	296 CA GLY A 568	-6.299 -6.747	13.290	-4.724	1.00 21.87	С
MOTA	297 C GLY A 568	-6.142	13.693	-5.724	1.00 22.86	0
MOTA	250 0 525 7 560	-7.806	13.922	-4.221	1.00 20.50	N
MOTA	299 N ARG A 569 300 CA ARG A 569	-8.318	15.128	-4.850	1.00 20.17	C
ATOM ATOM	301 CB ARG A 569	-9.660	15.516	-4.230	1.00 20.02 1.00 20.32	C
ATOM	.302 CG ARG A 569	-10.770	14.494	-4.480 -3.529	1.00 23.32	Č
ATOM	303 CD ARG A 569	-11.931	14.685	-3.529	1.00 20.04	N
ATOM	304 NE ARG A 569	-12.508		-2.556		С
MOTA	305 CZ ARG A 569	-12.888 -12.747		-1.323	1.00 17.50	N
MOTA	306 NH1 ARG A 569 307 NH2 ARG A 569	-13.426		-2.732	1.00 20.21	И
ATOM	T F CO	-7.320	4	-4.728		С
MOTA	308 C ARG A 569 309 O ARG A 569	-7.238		-5.610	1.00 25.40	O N
ATOM ATOM	310 N GLN A 570	-6.548		-3.647	1.00 22.17 1.00 22.80	C
ATOM	311 CA GLN A 570	-5.569				Ċ
ATOM	312 CB GLN A 570	-5.028				С
ATOM	313 CG GLN A 570	-6.081				C
ATOM	314 CD GLN A 570	-5.476 -6.191				0
ATOM '	315 OE1 GLN A 570	-4.148			1.00 24.08	N
MOTA	316_ NE2 GLN A 570 317 C GLN A 570	-4:411		.: 4.455		Ç
MOTA		-3.875	18.318	-4.880		O N
MOTA	318 O GLN A 570 319 N VAL A 571	-4.021	16.055			C
ATOM ATOM	320 CA VAL A 571	-2.946				C
ATOM	321 CB VAL A 571	-2.661				Č
MOTA	322 CG1 VAL A 571	-1.680				. C
ATOM	323 CG2 VAL A 571	-2.094			1.00 22.98	C
ATOM	324 C VAL A 571	-3.394 -2.697			1.00 23.56	0
MOTA	325 O VAL A 571 326 N ILE A 572	-4.570				N
MOTA	326 N ILE A 5/2	1.0				

	207	CT.	ILE A 572		-5.109	16.631 -8.801	1.00 23.54	C
ATOM	327 328	CA CB	ILE A 572		-6.571	16.164 - 9.057	1.00 25.60	C
ATOM ATOM	329	CG2	ILE A 572		-7.212	17.028 -10.138	1.00 23.10 1.00 25.53	C
ATOM	330	CG1	ILE A 572		-6.598	14.698 -9.507 13.765 -8.563	1.00 25.53 1.00 28.80	Č
MOTA	331	CD1	ILE A 572		-5.914	13.765 -8.563 18.157 -8.756	1.00 23.17	C
ATOM	332	C	ILE A 572		-5.091 -4.760	18.810 -9.740	1.00 26.20	0
ATOM	333	0	ILE A 572 ALA A 573		-5.444	18.731 -7.614	1.00 21.88	N
MOTA	334 335	N CA	ALA A 573		-5.445	20.179 -7.484	1.00 20.37	C
ATOM ATOM	336	CB	ALA A 573		-6.173	20.594 - 6.216	1.00 18.79	C
ATOM	337	C	ALA A 573		-4.018	20.723 -7.477	1.00 20.64 1.00 20.41	0
ATOM	338	0	ALA A 573		-3.780	21.857 -7.885 19.918 -7.009	1.00 20.41 1.00 20.63	N
MOTA	339	N	ALA A 574		-3.069 -1.674	19.918 -7.009 20.347 -6.976	1.00 22.06	C
ATOM	340	CA	ALA A 574		-0.859	19.428 -6.075	1.00 21.71	С
MOTA	341 342	CB C	ALA A 574 ALA A 574		-1.096	20.341 -8.390	1.00 22.27	C
ATOM ATOM	343	0	ALA A 574		-0.229	21.153 -8.729	1.00 22.45	0
ATOM	344	N	VAL A 575		-1.580	19.409 -9.203	1.00 21.27 1.00 22.34	N C
ATOM	345	CA	VAL A 575		-1.145	19.273 -10.583 17.950 -11.210	1.00 22.34 1.00 24.69	č
MOTA	346	CB	VAL A 575		-1.695	17.950 -11.210 17.899 -12.686	1.00 21.88	C
MOTA	347	CG1			-1.378 -1.092	16.708 -10.484	1.00 24.59	C
MOTA	348 349	CG2 C	VAL A 575 VAL A 575		-1.697	20.464 -11.360	1.00 25.30	C
ATOM ATOM	350	Ö	VAL A 575		-0.996	21.094 -12.163	1.00 24.89	0
ATOM	351	N	LYS A 576		-2.964	20.777 -11.108	1.00 26.15 1.00 26.08	N C
ATOM	352	CA	LYS A 576		-3.628	21.883 -11.778	1.00 20.00	č
MOTA	353	CB	LYS A 576		-5.100	21.892 -11.362 23.016 -11.932	1.00 35.73	C
ATOM	354	CG	LYS A 576		-5.936 -6.131	22.864 -13.430	1.00 41.72	C
MOTA	355 356	CD CE	LYS A 576 LYS A 576		-7.184	23.840 -13.934	1.00 43.06	С
ATOM ATOM	357	NZ	LYS A 576		-8.423	23.729 -13.105	1.00 44.70	N
ATOM	358	C	LYS A 576		-2.927	23.198 -11.414	1.00 25.77 1.00 26.93	C 0
ATOM	359	0	LYS A 576		-2.708	24.068 -12.268 23.326 -10.142	1.00 20.33	N
MOTA	360	N	TRP A 577		-2.561 -1.875	23.326 -10.142 24.510 -9.637	1.00 21.37	С
ATOM	361	CA	TRP A 577 TRP A 577		-1.746	24.411 -8.120	1.00 18.79	С
MOTA	362 363	CB CG	TRP A 577		-0.719	25.321 -7.537	1.00 19.34	C
ATOM ATOM	364	CD2			0.625	24.968 -7.165	1.00 17.94	C C
MOTA	365	CE2	TRP A 577		1.243	26.142 -6.671	1.00 18.46 1.00 15.69	C
ATOM	366	CE3			1.366	23.779 -7.206 26.657 -7.264		Ċ
MOTA	367	CD1			-0.856 0.320	27.157 -6.742		N
ATOM	368	NE1			2.573	26.156 -6.218	1.00 16.37	C
ATOM ATOM	369 370	CZ3			2.686	23.796 -6.762		C
ATOM	371	CH2			3.274	24.976 -6.275		C
ATOM	372	С	TRP A 577		-0.491	24.626 -10.270 25.683 -10.805		Ö
ATOM	373	0	TRP A 577		-0.118 0.264	23.531 -10.206		N
ATOM	374	N	ALA A 578 ALA A 578		1.611	23.482 -10.762	1.00 24.36	C
MOTA MOTA	375 376	CA CB	ALA A 578		2.189	22.096 -10.571	1.00 23.59	C
ATOM	377	C	ALA A 578		1.622	23.867 -12.245		C 0
ATOM	378	0	ALA A 578		2.414	24.720 -12.667		И
ATOM	379	N	LYS A 579		0.734	23.239 -13.020 23.491 -14.459		C
ATOM	380	CA	LYS A 579		0.605 -0.625			С
ATOM	381	CB	LYS A 579 LYS A 579		-0.514	21.242 -15.148	1.00 35.06	С
ATOM 67	382 383	CG CD	LYS A 579	£.	0.473	20.833 -16.232	1.00 38.17	C
ATOM	384	CE	LYS A 579		0.491			C N
MOTA	385		LYS A 579		-0.806			C
MOTA	386		LYS A 579		0.485 0.934			Ö
MOTA	387	0	LYS A 579 ALA A 580		-0.115		1.00 30.95	N
ATOM	388		ALA A 580 ALA A 580		-0.279	27.181 -14.144	1.00 29.86	C
ATOM ATOM	389 390		ALA A 580		-1.630	27.656 -13.602		C
ATOM	391		ALA A 580		0.842	000 -0 000		C
ATOM	392		ALA A 580		0.747	29.270 -13.596	, 1.00 30.34	v

			N
	393 N ILE A 581	1.901 27.424 -13.063 1.00 28.55	C
ATOM	393 N ILE A 581 394 CA ILE A 581	3.008 28.193 12.506 1 00 27.31	С
MOTA MOTA	395 CB ILE A 581	3.940 27.339 11.000 23.78	C
ATOM	396 CG2 ILE A 581	5.174 28.101 = 10 331 1.00 25.65	С
ATOM	397 CG1 ILE A 581	3.219 20.001 20.288 1.00 26.32	C
MOTA	398 CD1 ILE A 581	3.043 20.703 -13 613 1.00 29.17	C
ATOM	399 C ILE A 581	4.407 28 070 -14.402 1.00 28.76	O N
ATOM	400 O ILE A 581	3 947 30.128 -13.680 1.00 29.50	C
ATOM	401 N PRO A 582	3 314 31.083 -12.751 1.00 20.90	C
MOTA	402 00 220	4.757 30.820 -14.687 1.00 23.68	Ċ
MOTA	403 CM 2210 7 E02	4.789 32.253 -14.100 1 00 29 84	С
MOTA	404 CB PRO A 582 405 CG PRO A 582	3.458 32.391 13.401 1 00 29.77	C
ATOM ATOM	406 C PRO A 582	6.149 30.137 12.675 1 00 28.16	0
ATOM	407 O PRO A 582	6.721 29.900 -15.923 1.00 31.70	И
ATOM	408 N GLY A 583	8 017 29.398 -16.045 1.00 33.62	C ·
ATOM	409 CA GLY A 583	7 981 27.877 -16.047 1.00 35.09	Ö
MOTA	410 C GLY A 583 411 O GLY A 583	8 350 27.229 -17.030 1.00 36.04	N
MOTA	x =01	7.540 27.310 -14.929 1.00 33.00	C
ATOM	T EO/	7.416 25.870 -14.771 200 33.94	С
MOTA	413 CA PHE A 584 414 CB PHE A 584	6.800 25.563 13.403 1 00 31.93	C
MOTA	415 CG PHE A 584	6.433 24.116 -13.200 -1.00 31.47	C
MOTA MOTA	416 CD1 PHE A 584	7.342 23.224 13 516 1.00 31.80	C
ATOM	417 CD2 PHE A 584	6 982 21.901 -12.393 1.00 31.19	C
ATOM	418 CE1 PHE A 584	4 784 22,350 -13.274 1.00 30.92	C
ATOM	419 CE2 PHE A 584 420 CZ PHE A 584	5 697 21.464 -12.709 1.00 31.33	Ċ
MOTA		6.528 25.309 -15.875 1.00 35.68	0
ATOM	421 C PHE A 584 422 O PHE A 584	6.824 24.200 1 00 36.88	N
ATOM	423 N ARG A 585	5.446 20.010 17 219 1.00 39.05	C
MOTA MOTA	424 CA ARG A 585	4.501 25.505 -17.319 1.00 40.69	C ·
ATOM	425 CB ARG A 585	3 703 27 999 -17.630 1.00 44.66	C C
MOTA	426 CG ARG A 585	2 457 28.872 -17.760 1.00 47.75	N
MOTA	427 CD ARG A 585 428 NE ARG A 585	1.557 28.385 -18.810 1.00 52.24	C
MOTA	420 NE 1210 TO 505	0.362 28.904 -19.085 1.00 52.76	N
MOTA	429 CZ ARG A 585 430 NH1 ARG A 585	-0.096 29.936 -10.366 1 00 53.73	N
MOTA MOTA	431 NH2 ARG A 585	-0.379 26.300 20 614 1.00 38.66	С
ATOM	432 C ARG A 585	4 563 24 637 -19.448 1.00 38.04	O N
ATOM	433 O ARG A 585	6 250 26.017 -18.855 1.00 36.34	N C
ATOM	434 N ASN A 586 435 CA ASN A 586	6 936 25.948 -20.142 1.00 38.20	C
MOTA	707 7 506	7 640 27.279 -20.425 1.00 50.00	C
ATOM	436 CB ASN A 586 437 CG ASN A 586	6.664 20.445 20.223 1 00 39.24	Ο
ATOM ATOM	438 OD1 ASN A 586	7.000 29.365 -20.223 -1.00 36.46	N
ATOM	439 ND2 ASN A 586	5.461 20.173 20 213 1.00 38.85	C
ATOM	440 C ASN A 586	7.545 24 609 -21 247 1.00 40.05	N O
MOTA	441 O ASN A 586	8 120 24.102 -19.104 1.00 38.19	C
MOTA	442 N LEU A 587 443 CA LEU A 587	0 037 22.974 -19.053 1.00 55.55	Č
MOTA	- DI D F 0 7	9.343 22.594 -17.605 1.00 37.76	С
MOTA	444 CB LEU A 587 445 CG LEU A 587	10.244 23.33 1 00 36 40	С
MOTA MOTA	446 CD1 LEU A 587	10.247 23.513 -17 353 1.00 36.25	C
ATOM	447 CD2 LEU A 587	11.663 23.523 -19.748 1.00 35.11	C
ATOM	448 C LEU A 587	725 -19 812 1.00 33, 16	O ::
MOTA	449 O LEU A 587	9 167 20.889 -20.275 1.00 33.14	N C
MOTA	450 N HIS A 588 451 CA HIS A 588	8 642 19.720 -20.957 1.00 30.67	C
ATOM		9.803 18.840 -21.435 1.00 31.20	Ċ
MOTA	452 CB HIS A 588 453 CG HIS A 588	9.389 17.730 22.735 1 00 30.94	C
MOTA MOTA	454 CD2 HIS A 588	9.385 17.556 21.934 1.00 31.37	N
ATOM	455 ND1 HIS A 588	8.870 15.798 -22 979 1.00 32.18	C
ATOM	456 CE1 HIS A 588	8 866 16.468 -24.077 1.00 32.69	N C
ATOM	457 NE2 HIS A 588 458 C HIS A 588	7.766 18.957 -19.972 1.00 29.79	C
ATOM	458 C HIS A 588		

•				500	0 006	18.893	-18 785	1.00 30.89	0
MOTA	459		HIS A		8.086	18.381		1.00 28.76	N
MOTA	460	N		589	6.668		-19.592	1.00 27.43	С
ATOM	461	CA	LEU A	589	5.761	-		1.00 28.13	C
ATOM	462	CB	LEU A	589	4.716	16.879			Č
ATOM	463	CG	LEU A	589	3.290		-20.343		Č
	464			589 .	2.766	17.388		1.00 29.73	
ATOM	465		_	589	3.288		-20.854	1.00 32.32	C
ATOM			LEU A		6.487	16.637	-18.699	1.00 26.92	C
ATOM	466			589	6.206	16.555	-17.516	1.00 26.21	0
MOTA	467	_			7.417	15.878	-19.264	1.00 27.79	N
ATOM	468		ASP A		8.163		-18.468	1.00 28.63	С
MOTA	469	-	ASP A		9.227		-19.310	1.00 28.13	C
ATOM	470		ASP A				-20.190	1.00 31.35	С
ATOM	471	-	ASP A		8.645			1.00 33.05	0
ATOM	472	_	ASP A		7.678		-19.751	1.00 32.29	0
ATOM	473	OD2	ASP A	590	9.167		-21.312		Č
ATOM	474	С	ASP A	590	8.830		-17.253	_ ,	ŏ
ATOM	475	0		590	8.856		-16.182		N
	476	N		591	9.374		-17.418	1.00 26.75	
MOTA	477	CA		591	10.039		-16.313	1.00 26.10	C
ATOM		CB		591	10.879	18.601	-16.832	1.00 25.04	C
ATOM	478			591	12.197	18.159	-17.437	1.00 25.45	C
MOTA	479	CG			12.464		-17.524	1.00 25.61	0
ATOM	480	OD1		591	12.974		-17.826	1.00 25.71	0
ATOM	481	OD2		591			-15.284	1.00 26.07	С
MOTA	482	C		591	9.036	10.066	-14.101	1.00 25.75	0
ATOM	483	0	ASP A	591	9.348	10.000	15 745	1.00 25.37	N
ATOM	484	N	GLN A		7.837		-15.745	1.00 24.97	C
MOTA	485	CA	GLN A	592	6.803		-14.855	1.00 24.27	Ċ
ATOM	486	CB	GLN A	592	5.658				Č
ATOM	487	CG	GLN A	_	6.028		-16.377	•	Č
MOTA	488	CD	GLN A		4.841	21.300		1.00 26.52	
	489	OE1	GLN A		3.791		-16.479	1.00 29.15	0
MOTA	490	NE2	GLN A		5.013	21.654	-18.335	1.00 27.88	N
ATOM		C	GLN A		6.285	17.629	-13.993	1.00 25.20	C
MOTA	491		GLN A		6.115		-12.772	1.00 26.51	0
ATOM	492	0		593	6.047		-14.636	1.00 23.72	N
ATOM	493	N			5.548		-13.962	1.00 24.08	С
MOTA	494	CA		593	5.202		-14.992	1.00 23.80	С
MOTA	495	CB	•	593		14.570		1.00 24.95	С
MOTA	496	CG		. 593	4.003			1.00 29.41	S
MOTA	497	SD	-	593	2.531	14.931		1.00 28.41	С
MOTA	498	CE	_ -	593	2.470	16.722		1.00 24.06	C
MOTA	499	С	MET A	593	6.558		-12.961	1.00 24.00	O,
ATOM	500	0	MET A	593	6.181	14.157			N .
ATOM	501	N	THR A	594	7.841		-13.259	1.00 24.52	C
ATOM	502	CA	THR A		8.931		-12.401	1.00 25.08	
	503	CB	THR A		10.298		-13.132	1.00 26.55	C
ATOM	504	OG1			10.320	13.685	-14.226	1.00 26.87	0
MOTA		CG2			11.468	14.302	-12.177	1.00 24.40	C
MOTA	505		THR A		8.979	15.323	-11.120	1.00 25.46	С
MOTA	506	C			8.960		-10.020	1.00 25.68	0
MOTA	507	0	THR A	1 334	9.036		-11.272	1.00 24.93	N
MOTA	508	N	LEU A		-		-10.134	1.00 25.45	С
ATOM	509	CA	LEU A		9.081		-10.630	1.00 22.72	С
MOTA	510	CB	LEU A		9.168			1.00 19.93	C
ATOM	511	CG	LEU A	595	10.338		-11.570	1.00 17.88	C
MOTA	512	CD1	LEU A	X 595	10.218		-12.133		Č
ATOM	513	CD2	LEU A	A 595	11.630		-10.814	1.00 15.94	Č
MOTA	514	C	LEU A		7.848			1.00 26.07	_
	515	ŏ	LEU A		7.949	17.475	-8.013	1.00 27.68	0 (%)
MOTA	516	N	LEU F		6.690		-9.846	1.00 25.55	N
ATOM			LEU F		5.454		-9.094	1.00 25.56	C
MOTA	517	CA			4.249		-10.031	1.00 25.22	C
ATOM	518	CB	LEU A		3.845		-10.433		С
MOTA	519	CG	LEU F		2.821			1.00 25.36	C
MOTA	520	CD1						01 05	C
MOTA	521	CD2			3.276			1.00 25.76	C C
ATOM	522	С		A 596	5.484				Ō
ATOM	523	0	LEU A	A 596	4.963				N
MOTA	524	N	GLN A	A 597	6.098	14.604	-9.072	1.00 20.73	**
444									

	525 CA GLN A 597	6.212 13.274 -8.491 1.00 27.83	C C
MOTA MOTA	526 CB GLN A 597	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	C C
ATOM	527 CG GLN A 597 528 CD GLN A 597	7.781 10.012 -9.861 1.00 38.65	0
ATOM ATOM	529 OE1 GLN A 597	7.829 10.123 123 8 525 9.140 -9.197 1.00 38.09	N C
ATOM	530 NE2 GLN A 597 531 C GLN A 597	7.061 13.362 -7.220 1.00 24.70	0
ATOM ATOM	532 O GLN A 597	6.809 12.001 0.00 24.14	N C
MOTA	533 N TYR A 598 534 CA TYR A 598	8.961 14.412 -6.106 1.00 24.63	С
ATOM ATOM	535 CB TYR A 598	10.347 14.875 -0.377 1.00 26.03	C C
MOTA	536 CG TYR A 598	12.243 14.284 -8.129 1.00 27.33	C
ATOM ATOM	538 CE1 TYR A 598	12.926 13.377 -8.555 1.00 27.21	C
MOTA	539 CD2 TYR A 598	11.293 11.691 -8.413 1.00 20.00	C
MOTA ATOM	541 CZ TYR A 598	12.434 12.084 -9.000 1.00 33.28	0 C
ATOM	542 OH TYR A 598	8.489 15.420 -5.077 1.00 22.05	0
ATOM ATOM	544 O TYR A 598	9.074 15.509 -4.000 1.00 20.97	N C
ATOM	545 N SER A 599	7.022 17.191 -4.435 1.00 19.	C
ATOM ATOM	547 CB SER A 599	7.436 18.550 -6.059 1.00 19.53	O C
ATOM	548 OG SER A 599	5.561 17.267 -4.000 1.00 19.15	0
MOTA MOTA	550 O SER A 599	5.242 16.000 -4.557 1.00 15.40	N C
MOTA	551 N TRP A 600	3.275 16.560 -4.151 1.00 17.24	С
ATOM ATOM	553 CB TRP A 600	2.376 13.302 1.00 18.87	C C
MOTA	554 CG TRP A 600 555 CD2 TRP A 600	2.079 13.360 -3.519 1.00 19.31	С
MOTA MOTA	556 CE2 TRP A 600	2.561 12.041 -2.450 1.00 20.20	C C
ATOM	557 CE3 TRP A 600 558 CD1 TRP A 600	3.395 13.255 -5.326 1.00 10.07	N
ATOM ATOM	559 NE1 TRP A 600	2.217 11.021 -2.744 1.00 22.72	C C
MOTA MOTA	561 CZ3 TRP A 600	0.882 12.653 -1.552 1.00 20.70	C
ATOM	562 CH2 TRP A 600	3.047 16.450 -2.633 1.00 19.20	0
MOTA MOTA	564 O TRP A 600	2.249 17.212 -2.003 1.00 17.50	N C.
ATOM	565 N MET A 601	3.598 15.354 -0.532 1.00 17.72	С
ATOM ATOM	567 CB MET A 601	4.410 14.140 -0.031 -1.00 17.40	C S
MOTA	568 CG MET A 601 569 SD MET A 601	2.492 13.436 1.886 1.00 19.02	C
ATOM ATOM	570 CE MET A 601	4 061 16.624 0.189 1.00 17.89	C O
MOTA	571 C MET A 601 572 O MET A 601	3.368 17.148 1.071 1.00 17.0	N
MOTA ATOM	573 N SER A 602	5.229 17.110 0.276 1.00 15.49	C
MOTA	575 CB SER A 002	7.131 18.636 -0.330 1.00 20.10	0
MOTA MOTA	576 OG SER A 602	4.834 19.509 0.250 1.00 15.33	C 0
ATOM	577 C SER A 602 578 O SER A 602	4.579 20.226 1.221 1.00 15.45	N
ATOM ATOM	579 N LEU A 603	3.347 20.798 -1.199 1.00 14.55	C
ATOM ATOM	580 CA LEU A 603	2.985° $20.842 - 2.688 1.00 12.50$	C
ATOM	582 CG LEU A 603	$\frac{4.113}{3.637}$ $\frac{21.110}{20.799}$ $\frac{-5.109}{3.637}$ $\frac{1.00}{3.630}$ $\frac{1.00}{3.636}$	C
ATOM ATOM	584 CD2 LEU A 603	4.556 22.569 -3.370 1.00 16.48	C 0
ATOM	585 C LEU A 603	1.571 21.615 0.212 1.00 16.14	N
MOTA MOTA	587 N MET A 604	1.534 19.420 0.456 1.00 18.92	C
MOTA	588 CA MET A 604	-0.275 17.815 0.137 1.00 18.51	C
10ta 10ta	500 CC MET A 604	-1.153 17.839 -1.113 1.00 21.33	

							16 050	1 06	ο .	1.00	24 51	S
ATOM	591	SD	MET A		-1.3	_	16.258	-1.969		1.00		Ċ
MOTA	592	CE	MET A		-2.0		15.250	1.95			19.09	C
MOTA	593	С	MET A		0.5		19.371	2.64	_	1.00		Ö
MOTA	594	0	MET A		-0.3	. •	19.884				18.28	N
MOTA	595	N	ALA A		1.6		18.966	2.45	_	1.00		C
MOTA	596	CA	ALA A		2.0		19.107	3.87			14.60	Č
MOTA	597	CB	ALA A		3.2		18.332	4.20	_	1.00		Č
ATOM	598	С	ALA A		2.2		20.579	4.22			15.68	Ö
ATOM	599	0	ALA A	605	1.8		21.031	5.32			17.60	N
ATOM	600	N	PHE A	606	2.8	-	21.316	3.27			14.90	C
ATOM	601	CA	PHE A	606	3.0		22.732	3.46	_		14.99	Č
ATOM	602	CB	PHE A	606	3.9		23.259	2.34	_		15.85	Č
ATOM	603	CG	PHE A	606	4.6	_	24.542	2.68			15.60	Č
ATOM	604	CD1	PHE A	606	5.6		24.573	3.69	•	_	17.41	Č
ATOM	605	CD2	PHE A	606	4.3	_	25.732	2.04			13.51	Č
ATOM	606	CE1	PHE A	606		215	25.764	4.07	•		14.18	Č
ATOM	607	CE2	PHE A	606	4.9	927	26.941	2.41		_	14.10	C
ATOM	608	CZ	PHE A	606		372	26.951	3.42			14.99	Č
ATOM	609	С	. PHE A	606		787	23.557	3.52		_	16.12	0
ATOM	610	0	PHE A	606		551	24.429	4.37		—	14.14	N
ATOM	611	N	ALA A			350	23.288	2.60			12.28	C
ATOM	612	CA	ALA A		-0.4		24.003	2.57		1.00	7.48	č
ATOM	613	СB	ALA A		-1.2		23.581	1.33		1.00	12.83	Č
ATOM	614	С	ALA A	607	-1.2		23.692	3.84			12.84	Ö
ATOM	615	0	ALA A		-1.8		24.583	4.43			13.10	Ŋ
ATOM	616	N	LEU A	608	-1.3		22.417	4.23			13.47	Č
ATOM	617	CA	LEU A	608	-1.8		21.968	5.43		1.00	13.37	Č
ATOM	618	CB	LEU A	608	-1.0		20.464	5.63		1.00	12.59	Č
ATOM	619	CG	LEU A		-2.0		19.827	6.97		1.00	12.66	Č
MOTA	620	CD1	LEU A	608	-3.		20.155	7.30		1.00	7.59	Č
MOTA	621	CD2			-1.		18.315	6.91		1.00	15.21	Ċ
MOTA	622	С	LEU A		-1.3		22.761	6.60 7.44		1.00	15.56	Ō
MOTA	623	0	LEU A		-2.		23.288			1.00	14.81	N
MOTA	624	N	GLY A			031	22.864	6.63 7.67		1.00	14.53	C
ATOM	625	CA	GLY A			706	23.609	7.67		1.00	18.21	Č
ATOM	626	C	GLY A			208	25.042	8.74		1.00	16.57	0
MOTA	627	0	GLY A		-0.		25.640	6.48		1.00	18.92	N
ATOM	628	N	TRP A			025	25.608 26.975	6.39		1.00	19.51	C
MOTA	629	CA	TRP A		-0.		27.500	4.96		1.00	22.20	C
MOTA	630	CB	TRP A		-0.		28.904	4.82		1.00	26.46	С
MOTA	631	CG	TRP A		-0.		30.110	5.22		1.00	28.37	С
ATOM	632	CD2		610	-0. -1.		31.194	4.91		1.00	28.78	С
MOTA	633	CE2		610		096	30.379	5.82		1.00	27.32	С
ATOM	634	CE3			-2.		29.294	4.29		1.00	26.45	С
MOTA	635	CD1			-2. -2.		30.668	4.35		1.00	29.69	N
MOTA	636	NE1				656	32.526	5.17		1.00	27.49	С
MOTA	637	CZ2				441	31.706	6.08		1.00	28.88	С
MOTA	638	CZ3				564	32.762	5.75		1.00	28.83	С
ATOM	639	CH2	TRP F			905	27.094	6.86		1.00	19.11	С
MOTA	640	C	TRP F			256	28.052	7.54		1.00	19.32	0
ATOM	641	0				750	26.128	6.52			18.74	N
ATOM	642	N	ARG A			127	26.204	6.99			19.68	С
ATOM	643	CA	ARG A			989	25.075	6.39		1.00	19.92	С
ATOM	644	CB				292	25.261	4.90			17.15	~ C
ATOM	645	CG	ARG A			378	24.315	4.39			14.12	C.
MOTA	646	CD		A 611 A 611		043	22.898	4.5		1.00	17.44	$\cdot \cdot \mathbf{N}$
MOTA	647	NE		A 611		271	22.208	3.69		1.00	19.79	С
MOTA	648	CZ		A 611		730	22.786	2.6		1.00	21.94	N
ATOM	649	NHI	_	A 611		050	20.919	3.9		1.00	20.74	N
ATOM	650	NH2		A 611		151	26.146				19.29	С
ATOM	651	C		A 611		703	27.034	9.1		1.00	17.58	0
ATOM	652	0		A 612		528	25.116			1.00	20.00	N
ATOM	653	N		A 612		476	24.920	10.5	41	1.00	22.03	С
ATOM	654	CA		A 612		477	23.808		89 "	1.00	20.76	С
MOTA	655	CB		A 612		900	22.565			1.00	19.33	0
ATOM	656	OG	JER A		٠.							

		or 10	С
	657 C SER A 612	-3.096 26.190 11.289 1.00 25.12	Ö
ATOM	A 612	-3.745 26.568 12.267 1.00 27.13	N
ATOM		-2.034 26.832 10.010 1.00 29.28	C
ATOM	mir n 613	-1.527 28.06/ 11.350 1 00 30.39	С
MOTA	myn 7 613	-0.214 20.420 10 000 1 00 31.94	C
ATOM	661 CB TYR A 613 662 CG TYR A 613	0.205 29.667 10.609 1 00 33.61	C
ATOM	663 CD1 TYR A 613	0.277 30.327 12.113 1.00 35.43	C
MOTA	664 CE1 TYR A 613	0.761 31.042 29.660 1.00 31.78	C
ATOM ATOM	665 CD2 TYR A 613	0.010 33.01	C C
ATOM	666 CE2 TYR A 613	1.050 32 493 10.953 1.00 34.95	0
ATOM .	667 CZ TYR A 613	1 676 33.772 11.000 1.00 30.03	C
ATOM	668 OH TYR A 613	2 520 29.213 11.235 1.00 31.31	Ö
MOTA	669 C TYR A 613	-2.785 29.942 12.165 1.00 33.98	N
ATOM	670 O TYR A 613 671 N ARG A 614	-3.061 29.376 10.036 1.00 36 74	С
MOTA	3DC 7 61/	-4.023 30.438 9.761 1.00 39.03	C
MOTA	672 CA ARG A 614 673 CB ARG A 614	-4.305 30.540 3.275 1.00 43.69	C
ATOM	674 CG ARG A 614	-3.685 31.729 32.605 8.519 1.00 47.27	C
MOTA	675 CD ARG A 614	-2.895 32.003 8.060 1.00 52.81	N
MOTA ATOM	676 NE ARG A 614	2.000 34 971 8.673 1.00 56.27	C
ATOM	677 CZ ARG A 614	-2.230 34 719 9.776 1.00 56.73	N N
ATOM	678 NH1 ARG A 614	2 291 36.210 8.187 1.00 37.03	C
ATOM	679 NH2 ARG A 614	5 350 30.250 10.519 1.00 37.03	ŏ
ATOM	680 C ARG A 614	-5.895 31.201 11.075 1.00 37 95	N
MOTA	681 O ARG A 614 682 N GLN A 615	-5.871 29.026 10.518 1.00 37.73	C
MOTA		-7.155 28.739 11.134 1.00 37.47	С
ATOM	CTN 7 615	-7.758 27.446 10.300 1.00 39.17	С
MOTA	685 CG GLN A 615	-7.885 27.410 3.511 1.00 41.61	C
ATOM	686 CD GLN A 615	-8.691 20.728 8.788 1.00 42.90	0
ATOM ATOM	687 OE1 GLN A 615	7 718 1.00 41.96	N C
ATOM	688 NE2 GLN A 615	7 132 28 635 12.674 1.00 37.35	0
ATOM	689 C GLN A 615	-7 879 29.334 13.358 1.00 37.07	N
ATOM	690 O GLN A 615 691 N SER A 616	-6.271 27.767 13.197 1.00 36.04	C
MOTA	ann n 616	-6.176 27.536 14.639 1.00 35.20	С
MOTA	ann 7 616	-6.396 26.053 14.325 1.00 31.48	0
MOTA	693 CB SER A 616 694 OG SER A 616	-5.3/1 23.2/4 15 258 1.00 36.93	С
ATOM	695 C SER A 616	-4.848 27.343 16.211 1.00 37.77	0
MOTA MOTA	696 O SER A 616	4 221 28 985 14.718 1.00 37.08	И С
ATOM	697 N SER A 61/	2 938 29.461 15.229 1.00 36.65	c
ATOM	698 CA SER A 617	-3 142 30.229 16.540 1.00 30.75	ő
MOTA	699 CB SER A 617	-3.976 31.356 16.344 1.00 36 70	C
MOTA	700 00 525 7 617	-1.925 28.337 15.451 1.00 36.03	0
MOTA	A 617	-1.140 28.383 10.333 1.00 37.72	N
MOTA	702 O SER A 617 703 N ALA A 618	-1.953 27.331 14.640 1.00 38.97	C
MOTA ATOM	704 CA ALA A 618	2.413 26 667 14.784 1.00 34.92	C
ATOM	705 CB ALA A 618	1 374 25.205 15.766 1.00 40.28	0
ATOM	706 C ALA A 618	-0.522 24.427 16.208 1.00 40.70	N
MOTA	707 O ALA A 618 708 N ASN A 619	-2.625 25.241 16.216 1.00 40.36	C
MOTA		-3.083 24.371 17.291 1.00 39 96	C
ATOM	7 C17 7 C10	-4.241 25.030 10 005 1 00 41.03	C
ATOM	710 CB ASN A 619 711 CG ASN A 619	-3.772 26.123 10.363 1.00 42.68	0
MOTA	712 OD1 ASN A 619	-2.955 25.869 15.811 1V00 38.42	- ' N
ATOM	713 ND2 ASN A 619	-4.286 27.330 16.820 1.00 41.91	C
MOTA MOTA	714 C ASN A 619	-2 945 21.957 17.208 1.00 42.47	O N
ATOM	715 O ASN A 619	-4 557 22.958 15.983 1.00 39.93	C
ATOM	716 N LEU A 620	-5 121 21.713 15.479 1.00 37.81 -5 121 21.713 15.479 1.00 37.81	C
ATOM	717 CA LEU A 620	-6.649 21.797 15.557 1.00 37.01	Č
MOTA	718 CB LEU A 620	-7.224 22.411 16.839 1.00 33.11	C
ATOM	700 CD1 LEII A 620	-8.301 23.406 16.400 1.00 34.08	C
MOTA	CD2 LEIL A 620	-7.760 21.324 1.00 36.13	C
ATOM	700 C IFII A 620	-4.703 21.439 14.035 1.00 30.20	
ATOM			

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ATOM 723 O LEU A 620 -4.360 22.358 13.266 1.00 38.62 V NATOM 724 N LEU B 621 -4.391 19.833 12.274 1.00 28.31 C ATOM 725 CA LEU A 621 -4.391 19.833 12.274 1.00 28.31 C ATOM 726 CB LEU A 621 -2.447 18.262 11.659 1.00 25.72 C C LEU A 621 -2.447 18.262 11.659 1.00 25.74 C C ATOM 729 CD2 LEU A 621 -2.447 18.262 11.659 1.00 25.74 C C ATOM 730 C LEU A 621 -5.652 20.026 11.447 1.00 25.44 C C ATOM 731 O LEU A 621 -5.652 20.026 11.447 1.00 25.45 C C ATOM 731 O LEU A 621 -6.627 19.296 11.661 1.00 25.78 N ATOM 732 N CYS A 622 -6.5628 21.314 9.732 1.00 25.81 C ATOM 733 C A CYS A 622 -6.7628 21.314 9.732 1.00 25.81 C ATOM 735 C C LEU A 621 -6.627 19.296 11.607 1.00 25.81 C C C C ATOM 737 C B CYS A 622 -6.588 20.766 18.309 1.00 25.78 S ATOM 736 C C CYS A 622 -6.658 20.766 18.309 1.00 25.78 S ATOM 737 C C C C C C C C C C C C C C C C C C											•
ATOM 724 N LEU A 621 -4-127 20.171 13.844 1.00 28.31 C NATOM 725 CA LEU A 621 -3.91 19.833 12.274 1.00 28.31 C NATOM 727 CC LEU A 621 -3.902 18.386 12.164 1.00 28.41 C NATOM 727 CC LEU A 621 -2.120 16.819 11.334 1.00 23.94 C NATOM 728 CD1 LEU A 621 -2.120 16.819 11.334 1.00 23.94 C NATOM 729 CD2 LEU A 621 -2.120 16.819 11.334 1.00 23.94 C NATOM 730 C LEU A 621 -5.652 20.026 11.447 1.00 26.57 C C NATOM 731 C LEU A 621 -5.662 71.9296 11.00 1.00 25.40 C NATOM 733 C NATOM 734 C NATOM 735 C NATOM 735 C NATOM 735 C NATOM 736 C NATOM 737 C NATOM 739 C NATOM 7	ΔͲOM	723	0	LEU	A	620	-4.360		13.286	1.00 36.62	0
ATOM 725 CA LEU A 621 -4.391 19.833 12.264 1.00 25.12 C ATOM 727 CG LEU A 621 -2.447 18.262 11.639 1.00 25.72 C ATOM 728 CD1 LEU A 621 -2.447 18.262 11.639 1.00 25.72 C C ATOM 729 CD2 LEU A 621 -2.229 19.159 10.503 1.00 25.40 C C ATOM 730 C LEU A 621 -5.652 20.261 1.447 1.00 25.51 C C ATOM 731 C LEU A 621 -6.627 19.296 11.600 1.00 25.08 C C ATOM 731 C LEU A 621 -6.627 19.296 11.600 1.00 25.08 C C ATOM 731 C C LEU A 621 -6.627 19.296 11.600 1.00 25.08 C C ATOM 732 N CYS A 622 -6.762 21.314 3.732 1.00 25.98 C C ATOM 733 C A CYS A 622 -6.762 21.314 3.732 1.00 25.98 C C ATOM 735 C C CYS A 622 -6.7002 22.829 9.167 1.00 25.81 C C C C ATOM 736 C C CYS A 622 -6.588 21.314 9.732 1.00 25.78 C C C C ATOM 737 C C C CYS A 622 -6.588 21.314 9.732 1.00 25.78 C C C C ATOM 737 C C C CYS A 622 -6.588 21.354 C 1.311 1.00 25.78 C C C C ATOM 736 C C CYS A 622 -6.588 21.456 7.398 1.00 25.09 C C C ATOM 737 C C C C C A 622 -6.588 21.456 7.398 1.00 25.09 C C C ATOM 737 C C C C C A 622 -6.588 21.456 7.398 1.00 25.09 C C C ATOM 737 C C C C C A 622 -6.588 21.456 7.398 1.00 25.09 C C C C ATOM 739 C A PRE A 623 -6.945 18.978 6.888 1.00 23.70 C C C C ATOM 739 C A PRE A 623 -6.945 18.978 6.888 1.00 23.70 C C C C ATOM 739 C A PRE A 623 -6.945 18.978 6.888 1.00 23.70 C C ATOM 741 C C PRE A 623 -6.425 18.582 7.526 1.00 16.85 C C ATOM 743 C C D PRE A 623 -6.425 18.582 7.526 1.00 16.85 C C ATOM 744 C C PRE A 623 -6.427 1.899 15.740 7.539 1.00 13.82 C C ATOM 745 C C PRE A 623 -6.427 1.899 15.740 7.539 1.00 13.82 C C ATOM 745 C C PRE A 623 -7.6427 1.957 19.537 5.893 1.00 23.13 C C ATOM 746 C C PRE A 623 -7.642 19.912 4.769 1.00 13.82 C C ATOM 747 C PRE A 623 -7.957 19.957 19.537 5.893 1.00 23.13 C C ATOM 745 C C PRE A 623 -7.957 19.537 5.893 1.00 23.13 C C ATOM 745 C C PRE A 623 -7.957 19.537 5.893 1.00 23.13 C C ATOM 745 C C PRE A 623 -7.957 19.506 6.627 1.00 13.82 C C ATOM 745 C C PRE A 623 -7.957 19.20 4.899 15.740 0.23.13 C C ATOM 745 C C PRE A 623 -7.957 19.20 4.899 15.740 0.23.13 C C ATOM 745 C C PRE A 623 -7.957 19.20 4.899 15.740 0.23.13 C C							-4.727				
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ATOM 771 CB LEU A 627 -11.627 16.518 8.112 1.00 31.94 C ATOM 772 CG LEU A 627 -10.730 15.346 8.526 1.00 32.23 C ATOM 773 CD1 LEU A 627 -11.443 14.478 9.540 1.00 32.57 C ATOM 774 CD2 LEU A 627 -10.367 14.529 7.316 1.00 33.61 C ATOM 775 C LEU A 627 -10.776 18.051 9.904 1.00 30.91 C ATOM 776 O LEU A 627 -9.731 18.242 9.276 1.00 31.58 O ATOM 777 N ILE A 628 -10.915 18.315 11.197 1.00 30.42 N ATOM 778 CA ILE A 628 -9.861 18.872 12.019 1.00 29.12 C ATOM 779 CB ILE A 628 -10.332 20.201 12.619 1.00 29.30 C ATOM 780 CG2 ILE A 628 -9.256 20.774 13.523 1.00 28.96 C ATOM 781 CG1 ILE A 628 -10.691 21.165 11.481 1.00 29.83 C ATOM 782 CD1 ILE A 628 -10.691 21.165 11.481 1.00 29.83 C ATOM 783 C ILE A 628 -9.500 17.884 13.132 1.00 28.55 C ATOM 784 O ILE A 628 -9.500 17.884 13.132 1.00 28.55 C ATOM 785 N ILE A 629 -8.206 17.671 13.332 1.00 28.07 N ATOM 785 N ILE A 629 -8.206 17.671 13.332 1.00 28.14 C ATOM 786 CA ILE A 629 -7.738 16.735 14.342 1.00 28.14 C ATOM 787 CB ILE A 629 -6.417 16.059 13.894 1.00 23.41 C ATOM 787 CB ILE A 629 -6.417 14.872 14.800 1.00 20.89						•		17.485			
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ATOM 773 CD1 LEU A 627 -11.443 14.478 9.540 1.00 32.37 ATOM 774 CD2 LEU A 627 -10.367 14.529 7.316 1.00 33.61 C ATOM 775 C LEU A 627 -10.776 18.051 9.904 1.00 30.91 C ATOM 776 O LEU A 627 -9.731 18.242 9.276 1.00 31.58 O ATOM 777 N ILE A 628 -10.915 18.315 11.197 1.00 30.42 N ATOM 778 CA ILE A 628 -9.861 18.872 12.019 1.00 29.12 C ATOM 779 CB ILE A 628 -10.332 20.201 12.619 1.00 29.30 C ATOM 780 CG2 ILE A 628 -9.256 20.774 13.523 1.00 28.96 C ATOM 781 CG1 ILE A 628 -10.691 21.165 11.481 1.00 29.83 C ATOM 782 CD1 ILE A 628 -11.173 22.534 11.943 1.00 29.22 C ATOM 783 C ILE A 628 -9.500 17.884 13.132 1.00 28.55 C ATOM 784 O ILE A 628 -9.500 17.884 13.132 1.00 28.55 C ATOM 785 N ILE A 629 -8.206 17.671 13.332 1.00 28.07 N ATOM 786 CA ILE A 629 -7.738 16.735 14.342 1.00 28.14 C ATOM 787 CB ILE A 629 -7.738 16.735 14.342 1.00 23.41 C ATOM 787 CB ILE A 629 -6.417 16.059 13.894 1.00 23.41 C				LEU	Α	627					
ATOM 774 CD2 LEU A 627 -10.367 14.529 7.310 1.00 30.91 C ATOM 775 C LEU A 627 -10.776 18.051 9.904 1.00 30.91 C ATOM 776 O LEU A 627 -9.731 18.242 9.276 1.00 31.58 O ATOM 777 N ILE A 628 -10.915 18.315 11.197 1.00 30.42 N ATOM 778 CA ILE A 628 -9.861 18.872 12.019 1.00 29.12 C ATOM 779 CB ILE A 628 -10.332 20.201 12.619 1.00 29.30 C ATOM 780 CG2 ILE A 628 -9.256 20.774 13.523 1.00 28.96 C ATOM 781 CG1 ILE A 628 -9.256 20.774 13.523 1.00 28.96 C ATOM 782 CD1 ILE A 628 -10.691 21.165 11.481 1.00 29.83 C ATOM 783 C ILE A 628 -11.173 22.534 11.943 1.00 29.22 C ATOM 784 O ILE A 628 -9.500 17.884 13.132 1.00 28.55 C ATOM 785 N ILE A 629 -9.500 17.884 13.132 1.00 28.55 C ATOM 786 CA ILE A 629 -8.206 17.671 13.332 1.00 28.07 N ATOM 786 CA ILE A 629 -7.738 16.735 14.342 1.00 28.14 C ATOM 787 CB ILE A 629 -6.417 16.059 13.894 1.00 23.41 C ATOM 787 CB ILE A 629 -6.417 16.059 13.894 1.00 23.41 C			CD1								
ATOM 775 C LEU A 627		774	CD2								
ATOM 776 O LEU A 627 ATOM 777 N ILE A 628 ATOM 778 CA ILE A 628 ATOM 779 CB ILE A 628 ATOM 780 CG2 ILE A 628 ATOM 781 CG1 ILE A 628 ATOM 782 CD1 ILE A 628 ATOM 783 C ILE A 628 ATOM 784 O ILE A 628 ATOM 785 N ILE A 628 ATOM 785 N ILE A 629 ATOM 786 CA ILE A 629 ATOM 787 CB ILE A 629 ATOM 788 CB ILE A 628 ATO	MOTA		С								
ATOM 778 CA ILE A 628	ATOM		•								
ATOM 778 CA ILE A 628 ATOM 779 CB ILE A 628 ATOM 780 CG2 ILE A 628 ATOM 781 CG1 ILE A 628 ATOM 782 CD1 ILE A 628 ATOM 783 C ILE A 628 ATOM 784 O ILE A 628 ATOM 785 N ILE A 629 ATOM 785 N ILE A 629 ATOM 786 CA ILE A 629 ATOM 787 CB ILE A 628 A										1.00 29.12	C
ATOM 780 CG2 ILE A 628											
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ATOM 783 C ILE A 628								21.165			C
ATOM 783 C ILE A 628								22.534			C
ATOM 784 O ILE A 628 -10.372 17.326 13.793 1.00 20.03 N ATOM 785 N ILE A 629 -8.206 17.671 13.332 1.00 28.07 N ATOM 786 CA ILE A 629 -7.738 16.735 14.342 1.00 28.14 C ATOM 787 CB ILE A 629 -6.417 16.059 13.894 1.00 23.41 C											
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ATOM 786 CA ILE A 629 -7.738 16.735 14.342 1.00 23.41 C ATOM 787 CB ILE A 629 -6.417 16.059 13.894 1.00 23.41 C				ILE	E A	629				11	
ATOM 787 CB ILE A 629 -6.417 10.003 13.800 1.00 20.89 C									1		
ATOM 788 CG2 ILE A 629 -0.03/ 14.0/2 14.000	MOTA										
	MOTA	788	CG:	Z IL	Ä	629	-0.037	14.012			

		6 542 15.586 12.438 1.00 21.39	С
ATOM	789 CG1 ILE A 629	7.636 14.556 12.187 1.00 14.88	C
ATOM	790 CD1 ILE A 629	-7.532 17.417 15.690 1.00 31.04	C 0
MOTA	791 C ILE A 629	-6 438 17.877 16.011 1.00 31.30	N
MOTA	192 0 122 7 630	-8.601 17.484 16.473 1.00 do.50	С
MOTA	7 630	-8.546 18.094 17.795 1.00 38.06	C
ATOM	794 CA ASN A 630 795 CB ASN A 630	-9.959 18.296 18.333 1.00 38.08	C
ATOM ATOM	796 CG ASN A 630	-10.785 17.038 17.639 1.00 40.80	O N
ATOM	797 OD1 ASN A 630	10 300 15.976 18.881 1.00 35.09	N C
MOTA	798 ND2 ASN A 630 799 C ASN A 630	-7.751 17.207 18.750 1.00 43.32 -7.751 17.207 18.750 1.00 43.32	Ö
MOTA	- ar a 620	-7.347 16.096 10.333 1 00 47.18	N
MOTA	800 O ASN A 630 801 N GLU A 631	-7.548 17.706 19.505 1.00 51.44	C
MOTA MOTA	802 CA GLU A 631	-6.793 10.332 22.266 1.00 54.29	C C
ATOM	803 CB GLU A 631	-6 226 19.263 22.058 1.00 59.00	C
ATOM	804 CG GLU A 631 805 CD GLU A 631	-7.322 20.281 22.336 1.00 61.30 1.00 61.72	Ö
ATOM	805 CD GLU A 631 806 OE1 GLU A 631	-8.355 20.250 21.024 1.00 62.30	0
MOTA MOTA	807 OE2 GLU A 631	-7.149 21.103 23.1342 1.00 52.40	C
MOTA	ROS C GLU A 631	-6.630 14.729 21.751 1.00 53.22	O N
ATOM	809 O GLU A 631 810 N GLN A 632	-8.685 15.451 21.195 1.00 53.21	C
MOTA	27 7 622	-9.310 14.171 21.529 1.00 55.39	С
ATOM ATOM	812 CB GLN A 632	-10.754 14.378 21.333 1.00 57.92	C
ATOM	813 CG GLN A 632	13 221 14.366 21.425 1.00 60.19	C 0
ATOM	814 CD GLN A 632 815 OE1 GLN A 632	-13.605 13.685 22.380 1.00 60.31	N
ATOM	815 OE1 GLN A 632 816 NE2 GLN A 632	-14.013 15.234 20.796 1.00 53.11	С
MOTA MOTA	817 C GLN A 632	-9.305 13.201 20.535 1.00 53.30	0
ATOM	818 O GLN A 632	9 444 13.741 19.150 1.00 51.68	N C
ATOM	819 N ARG A 633	-9.464 12.917 17.954 1.00 50.42	Č
ATOM	820 CA ARG A 633 821 CB ARG A 633	-10.052 13.700 16.780 1.00 17.25	C
MOTA MOTA	822 CG ARG A 633	-10.689 12.620 13.376 1.00 45.91	C
MOTA	823 CD ARG A 633	11 347 14.805 14.379 1.00 42.55	N C
ATOM	824 NE ARG A 633 825 CZ ARG A 633	-12.635 14.979 14.094 1.00 39.20	Ŋ
ATOM	825 CZ ARG A 633 826 NH1 ARG A 633	-13.400 13.947 13.703 1 00 38.89	N
ATOM ATOM	827 NH2 ARG A 633	-13.151 10.137 17 619 1.00 49.42	С 0
ATOM	828 C ARG A 633	7 852 11 524 16.864 1.00 48.98	N
MOTA	829 O ARG A 633 830 N MET A 634	-7.063 13.160 18.188 1.00 48.72	Ċ
MOTA	831 CA MET A 634	-5.678 12.010 17 966 1.00 49.49	С
MOTA MOTA	932 CB MET A 634	-4.802 14.00 4 17.211 1.00 49.15	C S
MOTA	833 CG MET A 634 834 SD MET A 634	2 588 15.371 17.083 1.00 51.33	C
ATOM	034 55 7 634	-3.431 16.197 15.727 1.00 31.13	C
ATOM	836 C MET A 634	-5.174 11.795 10.045 1.00 49.13	0
MOTA MOTA	937 O MET A 634	-3.972 11.334 19.712 1.00 49.97 -6 109 11.240 19.712 1.00 49.97	И С
MOTA	838 N THR A 635 839 CA THR A 635	-5.789 10.225 20.708 1.00 48.31	C
MOTA	7 635	-6.635 10.381 21.969 1.00 49.20	0
MOTA	841 OG1 THR A 635	-7.985 9.900 22 436 1.00 48.63	C
ATOM ATOM	942 CG2 THR A 635	-6.634 11.023 20 079 1.00 46.80	C
MOTA	843 C THR A 635	-5.814 7.836 20.656 1.00 47.01 -5.814 7.836 20.656 1.00 47.01	O N
MOTA	1 7 636	-6.722 8.917 18.897 1.00 43.13 18.161 1 00 44.54	Ç
ATOM	946 CA LEU A 636	-7.061 7.703 15.920 1.00 45.26	С
MOTA ATOM	847 CB LEU A 636	-7.899 8.031 17.073 1.00 46.68 8.298 17.073 1.00 46.68	C
ATOM	848 CG LEU A 636	-9.640 9.415 18.072 1.00 48.83	C
MOTA	849 CDI 1100	-9.972 8.670 15.715 1.00 47.31	Č
ATOM	951 C LEU A 636	-5.774 7.000 17 502 1.00 41.79	0
ATOM ATOM	852 O LEU A 636	-4.732 7.600 1.00 42.87 -5.812 5.674 17.600 1.00 42.87	N C
ATOM	853 N PRO A 637	-5.812 5.674 17.665 1.00 42.81 -6.970 4.805 17.881 1.00 42.81	.
MOTA	854 CD PRO A 637		

							17 100	1.00 42.64	С
ATOM	855	CA	PRO A	637	-4.655	4.873	17.188		
ATOM	856	CB	PRO A	637	-5.264	3.495	16.949	1.00 42.55	С
			PRO A		-6.325	3.436	18.000	1.00 42.89	С
MOTA	857	CG				5.404	15.948	1.00 42.03	С
ATOM	858	С	PRO A		-3.943				0
ATOM	859	0	PRO A	637	-4.545	5.526	14.875		
ATOM	860	N	ASP A		-2.659	5.713	16.121	1.00 41.66	N
				638	-1.787	6.212	15.061	1.00 41.69	С
ATOM	861	CA				5.369	13.794	1.00 44.86	С
MOTA	862	CB	ASP A		-1.949			-	Ç
ATOM	863	CG	ASP A	638	-1.250	4.025	13.897	1.00 47.64	
ATOM	864	OD1	ASP A	638	-0.016	4.013	14.126	1.00 49.89	0
					-1.932	2.985	13.748	1.00 47.98	0
ATOM	865	OD2	ASP A			7.679	14.707	1.00 40.66	С
ATOM	866	С	ASP A	638	-1.947				Ö
ATOM	867	0	ASP A	638	-1.089	8.247	14.025		
ATOM	868	N	MET A	639	-3.032	8.297	15.163	1.00 37.51	N
				639	-3.250	9.699	14.860	1.00 35.41	С
ATOM	869	CA			-4.546	10.196	15.495	1.00 35.58	С
MOTA	870	CB	MET A					1.00 37.29	С
ATOM	871	CG	MET P	639	-5.760	10.003	14.605		S
MOTA	872	SD	MET A	639	-5.504	10.544	12.886	1.00 37.08	
ATOM	873	CE		639	-5.554	8.978	12.096	1.00 37.85	C
				639	-2.087	10.580	15.292	1.00 33.96	С
ATOM	874	C				11.346	14.488	1.00 34.72	0
ATOM	875	0	MET F		-1.552			1.00 31.47	N
ATOM	876	N	TYR A	4 640	-1.681	10.465	16.550	- · · · · · · · · · · · · · · · · · · ·	
ATOM	877	CA	TYR A	640	-0.580	11.276	17.052	1.00 29.77	C
	878	СВ	TYR A		-0.353	11.022	18.551	1.00 27.01	С
ATOM					0.952	11.622	19.059	1.00 25.22	C
ATOM	879	CG	TYR F				19.558	1.00 23.71	С
ATOM	880	CD1	TYR F	4 640	1.006	12.929			Č
ATOM	881	CE1	TYR A	4 640	2.224	13.499	19.967	1.00 22.51	
ATOM	882	CD2	TYR A		2.149	10.904	18.982	1.00 23.26	С
			TYR A		3.372	11.473	19.383	1.00 21.37	С
ATOM	883	CE2		_		12.767	19.875	1.00 21.41	С
ATOM	884	CZ	TYR A		3.399			1.00 22.84	0
ATOM	885	OH	TYR A	4 640	4.597	13.328	20.283	_	
MOTA	886	С	TYR A	4 640	0.745	11.057	16.325	1.00 28.18	C
ATOM	887	Ō	TYR A		1.426	12.010	15.953	1.00 26.85	0
		-			1.117	9.797	16.151	1.00 28.71	N
ATOM	888	N				9.453	15.517	1.00 28.19	С
MOTA	889	CA		4 641	2.380			1.00 28.67	C
ATOM	890	CB	ASP A	4 641	2.471	7.947	15.339		
ATOM	891	CG	ASP A	4 641	3.813	7.512	14.820	1.00 29.28	C
	892	OD1		A 641	3.844	6.692	13.878	1.00 32.46	0
ATOM				4 641	4.838	7.985	15.353	1.00 30.37	0
MOTA	893	OD2				10.126	14.175	1.00 29.44	С
ATOM	894	С	_	A 641	2.625			1.00 30.37	0
ATOM	895	0	ASP A	4 641	3.686	10.707	13.951		Ŋ
ATOM	896	N	GLN A	4 642	1.655	10.043	13.273	1.00 29.03	
ATOM	897	CA	GLN Z	A 642	1.839	10.657	11.970	1.00 29.83	С
				A 642	1.042	9.900	10.892	1.00 29.78	C
MOTA	898	CB				9.609	11.246	1.00 32.54	C
ATOM	899	CG		A 642	-0.397			1.00 31.80	C
MOTA	900	CD	GLN A		-1.008	8.512	10.383		ő
MOTA	901	OE1	GLN A	A 642	-2.149	8.103	10.601	1.00 32.82	
MOTA	902	NE2	GLN A	A 642	-0.255	8.035	9.401	1.00 29.50	N
		C	-	A 642	1.495	12.135	11.958	1.00 29.04	С
ATOM	903				2.102	12.903	11.202	1.00 28.81	0
MOTA	904	0		A 642			12.809	1.00 26.79	N
MOTA	905	N		A 643	0.551	12.536			
ATOM	906	CA	CYS 7	A 643	0.143	13.934	12.882	1.00 25.81	C
	907	CB		A 643	-1.111	14.087	13.742	1.00 26.43	С
ATOM					-2.642	13.720	12.873	1.00 28.94	S
MOTA	908	SG		A 643			13.404	1.00 25.12	C
MOTA	909	C·		A 643	1.203	14.890			Ö
ATOM	910	0	CYS Z	A 643	1.236	16.046	12.996	1.00 27.03	
ATOM	911	N		A 644	2.059	14.422	14.304	.1.00 23.52	N
				A 644	3.100	15.274	14.886	1.00 24.89	С
ATOM '	912	CA			3.893	14.502	15.959	1.00 25.80	С
ATOM	913	CB		A 644				1.00 24.01	C
ATOM	914	CG		A 644	4.718	13.327	15.415		
ATOM	915	CD	LYS 3	A 644	5.496	12.621	16.497	1.00 20.96	C
	916	CE		A 644	6.247	11.448	15.906	1.00 23.30	C
ATOM				A 644	7.056	10.715	16.919	1.00 21.99	N
ATOM	917	NZ				15.820	13.845	1.00 24.66	С
MOTA	918	С		A 644	4.070			<u> </u>	Ö
ATOM	919	0		A 644	4.763	16.808	14.092	1.00 24.41	
ATOM	920	N		A 645	4.124	15.160	12.690	1.00 25.17	N
UTOLI	220	••		-					

	921 CA HIS A 645	5.011 15.559 11.605 1.00 23.72	C C
ATOM	× CAE	5.247 14.369 10.665 1.00 24.16	Č
ATOM	722 GD 31-0 B CAE	5.923 13.202 11.322 1 00 05 31	Č
ATOM	925 00 1120 1	5.504 11.932 11.313 1 00 26 18	N
ATOM	924 CD2 HIS A 645 925 ND1 HIS A 645	7.191 13.203 11.000 1 00 24 70	С
MOTA	926 CE1 HIS A 645	7.522 12.113 12.303 1 00 22 90	N
ATOM	927 NE2 HIS A 645	6.516 11.276 12.200 1 00 23.69	С
MOTA	928 C HIS A 645	4.42/ 16.750 10.655 1 00 23.05	0
ATOM	929 O HIS A 645	5.160 17.643 10.403 1 00 23.32	N
ATOM ATOM	930 N MET A 646	3.106 16.755 10.077 1 00 23.24	С
ATOM	931 CA MET A 646	2.406 17.831 3.505 1.00 23.98	C
ATOM	932 CB MET A 646	1.001 17.372 3.300 1 00 28 41	C
ATOM	933 CG MET A 646	0.898 16.752 0.154 1 00 27.09	S
MOTA	934 SD MET A 646	0.403 14.303 2 200 1 00 31 59	C
MOTA	935 CE MET A 646	2 276 19 035 10.917 1.00 22.15	C
ATOM	936 C MET A 646	2 276 20 185 10 484 1.00 23 45	0
MOTA	937 O MET A 646	2 146 18 754 12.206 1.00 21.18	N
MOTA	938 N LEU A 647	2 003 19 793 13.207 1.00 20.07	C
MOTA	933 O11 === 7 C17	1.605 19.164 14.549 1.00 18.03	C C
MOTA	940 CB === 7 CA7	0 198 19.449 15.109 1.00 13.70	Č
MOTA	341 00 220 3 647	-0.655 20.155 14.089 1.00 11.83	Č
MOTA	942 ODI === 7 CA7	-0.449 18.152 15.551 1 00 31 04	Č
MOTA	943 CD2 LEU A 647 944 C LEU A 647	3.31/ 20.559 15.525	0
ATOM	945 O LEU A 647	3.344 21.700 13.735 1 00 22.12	N
ATOM ATOM	946 N TYR A 648	4.409 19.919 12.523 1 00 22 89	C
ATOM	947 CA TYR A 648	5.716 20.555 12.555 1 00 25.18	C
ATOM	948 CB TYR A 648	2.142 20 210 12 380 1.00 27.21	С
ATOM	949 CG TYR A 648	0.045 20.746 13.461 1.00 28.35	C
ATOM	950 CD1 TYR A 648	10 072 21 388 13.272 1.00 30.85	C
MOTA	951 CE1 TYR A 648	9 692 20.330 11.104 1.00 28.25	C C
MOTA	952 CD2 TYR A 648	9.913 20.969 10.900 1.00 31.81	C
ATOM	9,5 0,52 1,55 7, 640	10.599 21.496 11.985 1.00 32.69	Ö
ATOM	7 640	11.805 22.132 11.770 1.00 30.37	Č
MOTA	955 OH TYR A 648 956 C TYR A 648	5.753 21.722 11.303 1 00 22 94	Ō
ATOM ATOM	957 O TYR A 648	6.202 22.021 10.740 1 00 21.39	N
ATOM	958 N VAL A 649	5.285 21.464 10.712 1 00 20.14	С
MOTA	959 CA VAL A 649	3.245 22.476 8.386 1.00 18.93	С
MOTA	960 CB VAL A 649	4.615 21.636 7.293 1.00 17.59	C
ATOM	961 CG1 VAL A 649	5 420 20 700 7.914 1.00 19.84	C
ATOM	962 CG2 VAL A 649	4.424 23.676 10.112 1.00 19.80	C
MOTA	903 0 112	4.860 24.810 9.997 1.00 17.72	O N
MOTA	904 O TEO	3.222 23.407 10.597 1.00 22.33	C
MOTA	300 IV 5550	2.311 24.440 11.000 1 00 25 59	Č
MOTA	966 CA SER A 650 967 CB SER A 650	1.011 23.803 11.310 1 00 29.64	0
MOTA MOTA	968 OG SER A 650	0.158 24.767 12.002 1 00 26.73	C
ATOM	969 C SER A 650	2.922 25.240 12.336 1 00 27.60	0
MOTA	970 O SER A 650	2.744 20.400 12.004 1 00 25 89	N
ATOM	971 N SER A 651	3.045 24.330 1.00 24.96	C
ATOM	972 CA SER A 651	1.260 24 067 15.123 1.00 25.41	C
ATOM	973 CB SER A 651	5 076 24.550 16.425 1.00 29.08	0
MOTA	974 OG SER A 651 975 C SER A 651	5 378 26.145 13.803 1.00 24.90	0
MOTA	~=> 7 (E1	5.460 27.260 14.328 1.00 22.26	Ŋ
ATOM	2 11 3 CEO	6.219 25.726 12.853 1.00 24.07	C
MOTA	CTT 7 (E)	7.299 26.571 12.349 1.00 22.81	C
ATOM	978 CA GLU A 652 979 CB GLU A 652	8.204 23.770 = 10 139 1 00 25.38	C
ATOM	980 CG GLU A 652	9.196 24.001 12.000 1.00 27.50	C
MOTA MOTA	981 CD GLU A 652	10.007 23.002 14 251 1 00 26.18	0
MOTA	982 OE1 GLU A 652	11 120 26 054 12 686 1.00 28.48	0
MOTA	983 OE2 GLU A 652	6 770 27 806 11.625 1.00 24.78	C
ATOM	984 C GLU A 652	7 316 28 902 11.775 1.00 24.25	0.
ATOM	985 O GLU A 652	5.714 27.632 10.835 1.00 24.91	N
MOTA	986 N LEU A 653		

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ATOM	987	CA	LEU A	653	5.111	28.752	10.122	1.00 26.26	C
	988	CB		653	3.923	28.278	9.277	1.00 26.67	C
ATOM				653	4.109		7.810	1.00 26.12	С
MOTA	989	CG			5.290	_	7.647	1.00 27.97	С
MOTA	990	CD1	-	653			7.330	1.00 25.50	С
MOTA	991	CD2	•	653	2.840		11.157	1.00 27.54	С
ATOM	992	C		653	4.629				Ö
MOTA	993	0	LEU A	653	4.724		10.946		
ATOM	994	N	HIS A	654	4.116	29.250	12.274	1.00 27.97	N
ATOM	995	CA		654	3.612	30.065	13.381	1.00 28.01	C
	996	CB		654	2.914	29.171	14.412	1.00 28.47	С
MOTA		CG		654	2.419		15.611	1.00 29.23	С
ATOM	997				2.849		16.894	1.00 31.02	С
ATOM	998	CD2	HIS A		1.375		15.553	1.00 31.41	N
MOTA	999	ND1	HIS A				16.748	1.00 31.38	С
MOTA	1000	CE1	HIS A		1.184		17.580	1.00 31.53	N
ATOM	1001	NE2		654	2.066			1.00 28.29	C
ATOM	1002	С	HIS A	654	4.741		14.079		ő
MOTA	1003	0	HIS A	654	4.639		14.349	1.00 26.43	
ATOM	1004	N	ARG A	655	5.805		14.389	1.00 29.23	Ŋ
ATOM	1005	CA		655	6.973	30.636	15.056	1.00 30.11	C
ATOM	1006	CB		655	7.976	29.506	15.331	1.00 29.80	· C
	1007	CG		655	9.261	29.948	16.015	1.00 30.65	C
ATOM		CD		655	10.210		16.209	1.00 32.47	С
ATOM	1008			655	10.829		14.963	1.00 35.16	N
MOTA	1009	NE			11.812		14.334	1.00 36.76	С
MOTA	1010	CZ	ARG A				14.829	1.00 37.45	N
MOTA	1011	NH1	ARG A		12.291		13.222	1.00 35.49	N
MOTA	1012	NH2		655	12.337		14.180	1.00 31.54	C
MOTA	1013	С		655	7.612				Ö
MOTA	1014	0	ARG A		7.825		14.622		Ŋ
MOTA	1015	N	LEU A	656	7.912			1.00 32.33	C
ATOM	1016	CA	LEU A	656	8.522			1.00 31.24	
ATOM	1017	CB	LEU A	656	9.011	31.457		1.00 29.19	C
ATOM	1018	CG	LEU A	656	10.502	31.120		1.00 27.84	C
ATOM	1019	CD1	_		11.277	31.188	11.878	1.00 26.94	C
ATOM	1020	CD2			10.604	29.741	9.935	1.00 24.56	С
	1021	C	LEU A		7.544		11.521	1.00 31.13	С
MOTA		Ö	LEU A		7.942		10.870	1.00 30.73	0
ATOM	1022		GLN A		6.269			1.00 31.70	N
ATOM	1023	N			5.26			1.00 33.08	С
ATOM	1024	CA	GLN A		5.488			1.00 34.91	С
ATOM	1025	CB	-	657	4.979			1.00 35.94	С
ATOM	1026	CG		657				1.00 37.86	С
ATOM	1027	CD	GLN A		3.462			1.00 40.15	0
MOTA	1028	OE1			2.872			1.00 36.73	N
ATOM	1029	NE2	•	657	2.823			1.00 33.66	C
MOTA	1030	С		657	5.33				Ö
ATOM	1031	0	GLN A	657	5.362				N
MOTA	1032	N	VAL A	658	5.34			1.00 33.40	
MOTA	1033	CA	VAL A	658	5.429			1.00 31.86	C
ATOM	1034	CB	VAL A	658	5.575			1.00 30.76	С
ATOM	1035	CG1	VAL A	658	5.582	2 32.290		1.00 30.06	C
ATOM	1036		VAL A		6.858	31.517	7.585	1.00 28.18	C
	1037	C	VAL A		4.20	34.312	7.179	1.00 32.39	С
MOTA			VAL A		3.06			1.00 33.62	0
ATOM	1038	0	SER A		4.45			1.00 30.95	N
MOTA	1039	N			3.38			1.00 29.99	C
MOTA	1040	CA	SER A					1.00 29.29	С
MOTA	1041	CB	SER A		. 3.883			1.00 28.31	0
ATOM	1042	OG	SER A		4.68	4			Č
ATOM	.1043	C	SER A	659	2.82				Ö
ATOM	1044	0	SER A	659	3.48			1.00 31.99	
ATOM	1045	N	TYR A	660	1.62			1.00 30.55	Ŋ
ATOM	1046	CA	TYR A		1.01			1.00 30.07	C
ATOM	1047	CB	TYR A		-0.35				C
ATOM	1047	CG	TYR A		-1.18		1.655		C
		CD1			-1.37			1.00 28.71	
ATOM	1049	CE1			-2.13			1.00 30.32	
MOTA	1050		TYR		-1.77				С
ATOM	1051				-2.54				_
MOTA	1052	CE2	TYR A	7 000	-2.54	J J4.500	0.010		

								- 00 01 00	С
7 MOM	1053	CZ	TYR A	660	-2.718	33.224	-0.112	1.00 31.02	0
ATOM	1053	OH	TYR A		-3.477	32.476	-0.987	1.00 32.79	C
MOTA	1054	C	TYR A		1.910	34.997	1.658	1.00 30.23	0
ATOM		0		660	2.044	34.003	0.951	1.00 32.23	
MOTA	1056	N	GLU A		2.528	36.149	1.399	1.00 30.64	N
MOTA	1057			661	3.417	36.298	0.243	1.00 30.01	C
MOTA	1058	CA	GLU A		3.843	37.762	0.076	1.00 33.12	C
ATOM	1059	CB			3.002	38.513	-0.951	1.00 38.91	C
MOTA	1060	CG	GLU A		3.534	39.908	-1.271	1.00 42.25	С
ATOM	1061	CD	GLU A		4.750	40.054	-1.560	1.00 44.50	0
MOTA	1062	OE1	GLU A		2.725	40.860	-1.246	1.00 43.08	0
MOTA	1063	OE2	GLU A		4.653	35.397	0.335	1.00 27.83	C
MOTA	1064	C	•	661	4.995	34.706	-0.625	1.00 26.41	0
MOTA	1065	0		661	5.327	35.406	1.483	1.00 26.22	N
ATOM	1066	N		662	6.495	34.548	1.666	1.00 26.21	С
MOTA	1067	CA	GLU A		7.054	34.685	3.087	1.00 27.13	C
ATOM	1068	CB	GLU A		7.505	36.093	3.457	1.00 28.24	C
ATOM	1069	CG	GLU A		7.866	36.230	4.929	1.00 27.93	C
ATOM	1070	CD	GLU A		7.131	35.688	5.783	1.00 27.43	0
MOTA	1071	OE1			8.877	36.893	5.234	1.00 28.04	0
MOTA	1072	OE2		662	6.052	33.102	1.443	1.00 25.09	С
MOTA	1073	С				32.321	0.795	1.00 24.70	0
MOTA	1074	0			6.745	32.772	1.985	1.00 23.13	N
MOTA	1075	N	TYR A		4.879	31.442	1.889	1.00 20.90	C
ATOM	1076	CA			4.289	31.435	2.559	1.00 21.82	C
ATOM	1077	CB	TYR A		2.921	30.239	2.200	1.00 23.06	C
MOTA	1078	CG	TYR A		2.073	28.967	2.681	1.00 22.74	C
MOTA	1079	CD1			2.383	27.860	2.345	1.00 24.36	C
MOTA	1080	CE1			1.597	30.380	1.370	1.00 22.89	С
ATOM	1081	CD2			0.957	29.287	1.025	1.00 23.08	С
MOTA	1082	CE2			0.169	28.031	1.515	1.00 25.25	C
MOTA	1083	CZ	TYR A		0.491	26.956	1.175	1.00 27.42	O
MOTA	1084	OH	TYR A		-0.304	30.980	0.455	1.00 21.27	C
MOTA	1085	С	TYR A		4.137	29.893	0.081	1.00 21.88	0
MOTA	1086	0	TYR A		4.588	31.808	-0.339	1.00 20.62	N
MOTA	1087	N	LEU A		3.471	31.517	-1.739	1.00 19.11	C
MOTA	1088	CA	LEU A		3.241	32.716	-2.396	1.00 19.47	C
ATOM	1089	CB	LEU A		2.554	33.007	-1.857	1.00 20.24	С
MOTA	1090	CG	LEU A		1.155	34.269		1.00 20.06	С
MOTA	1091	CDI		664	0.595 0.255	31.797	-2.121	1.00 19.53	С
ATOM	1092	CD2			4.552			1.00 19.15	C
MOTA	1093	С		664	4.636			1.00 17.94	0
MOTA	1094	0	LEU A		5.567			1.00 18.90	N
MOTA	1095	N		665	6.882			1.00 20.45	С
MOTA	1096	CA	CYS A		7.771			1.00 20.26	C
MOTA	1097	CB	CYS A		7.156	- 4 600		1.00 23.67	S
MOTA	1098	SG	CYS A		7.130			1.00 18.73	С
MOTA	1099	С	CYS A		8.315			1.00 20.72	0
MOTA	1100	0	CYS A	_	7.353				N
MOTA	1101	N	MET A		7.333	100		1.00 18.39	С
MOTA	1102				7.800			1.00 17.75	C
MOTA	1103	CB			8.714			- 4	C
ATOM	1104	CG			8.402				S
MOTA	1105	SD			9.480				С
ATOM	1106	CE							C
MOTA	1107	C	MET A		7.370	1			0
MOTA	1108	0	MET A		8.081				N
MOTA	1109		LYS, A		6.055				С
MOTA	1110				5.414				С
MOTA	1111				3.893				C
MOTA	1112				3.169				С
MOTA	1113				1.812				С
MOTA	1114				0.907			4 4	N
MOTA	1115				0.536				С
MOTA	1116		LYS A		5.903 6.24				0
MOTA	1117		LYS A		5.95	255		40 60	N
MOTA	1118	N	THK A	4 668	J. 950				

							4 00 10 00	•
MOTA	1119	CA	THR A 668	6.436	27.155	-5.341	1.00 18.09	С
					28.474	-6.145	1.00 18.36	С
MOTA	1120	CB	THR A 668				1.00 20.06	0
MOTA	1121	OG1	THR A 668	5.250	29.165	-6.068		
	1122	CG2	THR A 668	6.806	28.168	-7.605	1.00 16.41	C
MOTA				7.845	26.557	-5.278	1.00 18.79	С
MOTA	1123	С	THR A 668					0
ATOM	1124	0	THR A 668	8.154	25.623	-6.015		
		N	LEU A 669	8.698	27.094	-4.407	1.00 17.40	N
MOTA	1125				26.561	-4.265	1.00 17.47	С
MOTA	1126	CA	LEU A 665					Č
MOTA	1127	CB	LEU A 669	10.838	27.363	-3.227	1.00 17.26	
					28.785	-3.660	1.00 17.73	C
MOTA	1128	CG	LEU A 669				1.00 17.23	С
MOTA	1129	CD1	LEU A 669	11.915	29.534	-2.513		
	1130	CD2	LEU A 669	12.152	28,694	-4.862	1.00 16.78	С
MOTA					25.077	-3.882	1.00 18.88	С
MOTA	1131	С	LEU A 669					0
ATOM	1132	0	LEU A 665	10.972	24.344	-4.231		
	1133	N	LEU A 67	9.015	24.628	-3.168	1.00 18.85	N
MOTA					23.218	-2.786	1.00 17.50	С
ATOM	1134	CA	LEU A 67				G- V G -	С
ATOM	1135	CB	LEU A 67	7.823	23.008	-1.743	1.00 16.39	
			LEU A 67		23.554	-0.345	1.00 16.07	С
ATOM	1136	CG			23.225	0.576	1.00 14.22	С
MOTA	1137	CD1	LEU A 67					Č
ATOM	1138	CD2	LEU A 67	9.430	22.953	0.182	1.00 10.78	
		C	LEU A 67		22.335	-3.992	1.00 16.98	С
ATOM	1139				21.139	-3.981	1.00 17.59	0
ATOM	1140	0	LEU A 67			_		N
ATOM	1141	N	LEU A 67	8.071	22.924	-5.033	1.00 18.06	
					22.183	-6.257	1.00 18.65	С
ATOM	1142	CA				-7.183	1.00 19.05	С
ATOM	1143	CB	LEU A 67		23.041			Č
ATOM	1144	CG	LEU A 67	5.893	22.436	-8.175	1.00 20.75	
					23.368	-9.379	1.00 18.13	C
MOTA	1145	CD1				-8.615	1.00 22.35	С
MOTA	1146	CD2	LEU A 67		21.057		_ · ·	Č
ATOM	1147	С	LEU A 67	9.088	21.905	-6.954	1.00 19.74	
			LEU A 67		20.965	-7.740	1.00 18.68	0
MOTA	1148	0				-6.636	1.00 20.29	N
ATOM	1149	N	LEU A 67					C
MOTA	1150	CA	LEU A 67	11.403	22.668	-7.233	1.00 20.68	
		CB	LEU A 67	11.754	24.038	-7.831	1.00 19.45	С
MOTA	1151				24.758	-8.510	1.00 18.14	С
MOTA	1152	CG	LEU A 67					С
MOTA	1153	CD1	LEU A 67	10.983	26.155	-8.956		
	1154	CD2		10.100	23.939	-9.697	1.00 17.20	С
MOTA						-6.230	1.00 20.29	С
MOTA	1155	С	LEU A 67					0
MOTA	1156	0	LEU A 67	13.613	22.698	-6.365	1.00 21.35	
		N	SER A 67		21.479	-5.232	1.00 22.83	N
MOTA	1157				21.093	-4.215	1.00 25.61	С
ATOM	1158	CA	SER A 67					С
ATOM	1159	CB	SER A 67	12.414		-2.849		
	1160	OG	SER A 67		20.171	-2.870	1.00 25.80	0
MOTA						-4.489	1.00 28.68	С
ATOM	1161	С	SER A 67				1.00 29.61	0
ATOM	1162	0	SER A 67	14.851		-3.814		
ATOM	1163	N	SER A 67	13.416	19.017	-5.473	1.00 32.04	N
						-5.851	1.00 33.89	С
ATOM	1164	CA					1.00 33.29	С
ATOM	1165	CB	SER A 67					
MOTA	1166	OG	SER A 67	13.627	16.313	-3.947	1.00 34.50	0
			SER A 67		17.593	-7.367	1.00 35.70	С
ATOM	1167	C				-8.136	1.00 36.96	0
ATOM	1168	0	SÉR A 67					N
MOTA	1169	N	VAL A 67	15.344	17.024	-7. 783	1.00 37.67	
			VAL A 67		16.785	-9.191	1.00 38.73	С
ATOM	1170	CA					1.00 38.56	С
ATOM	1171	CB	VAL A 67			_		C
MOTA	1172	CG1	VAL A 67	17.100	17.508	-11.134	1.00 39.62	
	1173	CG2				-9.801	1.00 37.67	С
MOTA							1.00 40.02	С
MOTA	1174	С	VAL A 67					
MOTA	- 1175	0	VAL A 67	16.931			1.00 39.57	0
		N	PRO A 67			-10.459	1.00 41.60	N
MOTA	1176					-11.578		С
MOTA	1177	CD	PRO A 67					
ATOM	1178	CA	PRO A 67	16.695	13.389	-10.644	1.00 42.00	C
	1179	CB	PRO A 67			-12.017	1.00 41.77	С
MOTA	_					-12.136	1.00 41.87	С
MOTA	1180	CG	PRO A 67					C
MOTA	1181	C	PRO A 67	18.214		-10.625	1.00 42.91	
	1182	O	PRO A 67		14.555	-10.972	1.00 42.14	0
MOTA						-10.217	1.00.46.47	N
ATOM	1183	N	LYS A 67					C
MOTA	1184	CA	LYS A 67	7 20.365	12.459	-10.172	1.00 49.54	C

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A COM A	1185	CB	LYS	Δ	677	20.912	11.094	-9.736	1.00	50.75	С
ATOM								-8.334		52.00	C
MOTA	1186	CG		Α		21.510	11.038				
MOTA	1187	CD	LYS	A	677	20.443	11.011	-7.256	1.00	53.60	С
							10.647	-5.894	1.00	52.72	С
ATOM	1188	CE	LYS	A	677	21.029					
MOTA	1189	NZ	LYS	Δ	677	21.914	11.716	-5.362	1.00	54.17	N
						20.941		-11.545	1.00	50.54	C
ATOM	1190	C	LYS	A	677						
ATOM	1191	0	LYS	Α	677	21.863	13.610	-11.659	1.00	50.25	0
								-12.585	1.00	52.11	N
MOTA	1192	N	ASP	A	678	20.389					
ATOM	1193	CA	ASP	A	678	20.854	12.397	-13.954	1.00	54.21	С
						20.415		-14.848	1.00	56.12	C
ATOM	1194	CB	ASP	A	678						
MOTA	1195	CG	ASP	Α	678	18.959	10.835	-14.634	1.00	59.10	C
					678	18.053	11.617	-15.004	1.00	59.04	0
MOTA	1196	OD1		A						61.96	
MOTA	1197	OD2	ASP	A	678	18.721	9.735	-14.087			0
		C		A		20.406	13.731	-14.569	1.00	53.68	С
MOTA	1198	C								54.41	0
MOTA	1199	0	ASP	A	678	20.740		-15.718			
ATOM	1200	N	GLY	Δ	679	19.656	14.520	-13.803	1.00	51.40	N
								-14.296	1.00	49.06	C
ATOM	1201	CA	GLY	A	679	19.192					
ATOM	1202	С	GLY	Α	679	17.871	15.762 ·	-15.050	1.00	48.05	С
						17.336	14.694	-15.352	1.00	47.80	0
MOTA	1203	0	${ t GLY}$	A							
MOTA	1204	N	LEU	A	680	17.347	16.945	-15.356	1.00	46.40	N
			LEU	A	680	16.087	17.085	-16.070	1.00	45.15	С
ATOM	1205	CA								44.21	С
ATOM	1206	CB	LEU	Α	680	15.327	18.307	-15.548			
	1207	CG	LEU	Α	680	14.969	18.341	-14.058	1.00	42.73	C
ATOM									1.00	42.42	С
ATOM	1208	CD1	LEU	Α	680	14.546	19.743				
ATOM	1209	CD2	LEU	Д	680	13.863	17.345	-13.767	1.00	39.89	С
								-17.557	1 00	45.21	С
MOTA	1210	С	LEU	A	680	16.344	-				_
MOTA	1211	0	LEU	A	680	17.495	17.269	-18.000	1.00	45.81	0
		_				15.269	17.390	-18.327	1.00	45.24	N
MOTA	1212	N		A							С
ATOM	1213	CA	LYS	Α	681	15.398	17.589	-19.765		46.30	
		CB	LYS	7\	681	14.024	17.562	-20.451	1.00	48.09	С
ATOM	1214									49.65	С
ATOM	1215	CG	LYS	Α	681	13.602	· - - · ·	-21.002			
ATOM	1216	CD	LYS	Α	681	13.266	15.222	-19.899	1.00	52.60	С
								-20.483	1.00	53.40	С
MOTA	1217	CE	LYS	A	681	12.731					
ATOM	1218	NZ	LYS	Α	681	11.558	14.171	-21.370	1.00	53.89	N
						16.059	18.945	-19.992	1.00	45.35	С
MOTA	1219	С	LYS								
MOTA	1220	0	LYS	Α	681	17.096	19.046	-20.650	1.00	46.12	0
			SER			15.452	19.987	-19.440	1.00	44.06	N
MOTA	1221	N					•			44.15	С
ATOM	1222	CA	SER	A	682	15.993	21.329				
ATOM	1223	CB	SER	Δ	682	14.959	22.266	-20.200	1.00	46.02	C
								-19.483	1.00	48.76	0
MOTA	1224	OG	SER	A	682	13.738					
MOTA	1225	С	SER	Α	682	16.413	21.848	-18.198	1.00	42.78	С
					682	15.763	22.722	-17.626	1.00	41.63	0
ATOM	1226	0	SER							_	N
MOTA	1227	N	${ t GLN}$	Α	683	17.506	21.290	-11.683		42.98	
	1228	CA	GLN	A	683	18.047	21.676	-16.384	1.00	44.09	С
ATOM									1.00	44.53	С
ATOM	1229	CB	GLN	A	683	19.311		-16.068			
ATOM	1230	CG	GLN	A	683	19.841	21.074	-14.653	1.00	46.82	С
				_		19.056	20.299	-13.593	1.00	49.02	С
MOTA	1231	CD	GLN	A							
MOTA	1232	OE1	GLN	A	683	19.036	20.677	-12.421	1.00	50.99	0
	1233	NE2	GLN	7	683	18.425	19.203	-14.000	1.00	50.06	N
ATOM										44.36	С
ATOM	1234	С	GLN	A	683	18.393	23.159				
ATOM	1235	0	GLN	Δ	683	18.298	23.812	-15.327	1.00	44.59	0
							23.682			45.31	N
ATOM	1236	N	GLU	A	684	18.792					
ATOM	1237	CA	GLU	Ά	684	19.175	25.083	-17.645	1.00	45.83	С
						19.847	25.333	-19 004	1.00	50.00	C
ATOM	1238	CB	GLU								
ATOM	1239	CG	GLU	A	684	21.116	24.496	-19.245		53.64	C
			GLU			20.818	23.036	-19.602	1.00	57.38	C
ATOM	1240	CD									Ō
ATOM	1241	OE1	GLU	Α	684	21.762	22.209	±73.2\T		59.95	
	1242	OE2	GLU			19.648	22.718	-19.923	1.00	57.21	0
ATOM						•				43.87	С
MOTA	1243	С	GLU	A	684		26.031				
ATOM	1244	0	GLU			18.155	27.116	-16.901	1.00	43.94	0
							25.633			41.57	N
MOTA	1245	N	LEU			16.831					
ATOM	1246	CA	LEU	A	685	15.643	26.462	-11.798		39.24	C
						14.511	25.938		1.00	39.22	С
ATOM.	1247	CB	LEU								
MOTA	1248	CG	LEU	Α	685	13.402	26.890			38.34	C
ATOM	1249	CD1	LEU			12.294	26.052	-19.789	1.00	38.02	С
							27.714			36.92	С
ATOM	1250	CD2	\mathtt{LEU}	A	ひひろ	12.843	21.114	- TO • 000	T . 00		9

		^	7 DIT 7 COE	15.234	26.358 -16.330	1.00 38.89	С
ATOM	1251	С	LEU A 685	14.934	27.358 -15.678	1.00 38.67	0
MOTA	1252	0	LEU A 685	15.235	25.131 -15.821	1.00 38.06	N
ATOM	1253	N	PHE A 686	14.878	24.861 -14.435	1.00 36.79	С
ATOM	1254	CA	PHE A 686	15.182	23.399 -14.095	1.00 34.50	С
MOTA	1255	CB	PHE A 686	14.911	23.045 -12.659	1.00 31.05	С
ATOM	1256	CG	PHE A 686	13.617	22.828 -12.217	1.00 28.43	С
MOTA	1257	CD1	PHE A 686	15.952	22.983 -11.741	1.00 31.24	С
MOTA	1258	CD2			22.559 -10.883	1.00 29.05	С
ATOM	1259	CE1	PHE A 686	13.356	22.715 -10.401	1.00 32.60	C
MOTA	1260	CE2		15.706	22.713 -10.401	1.00 32.35	C
MOTA	1261	CZ	PHE A 686	14.399	25.781 -13.448	1.00 38.31	Ċ
MOTA	1262	С	PHE A 686	15.618		1.00 37.53	Ö
MOTA	1263	0	PHE A 686	14.987		1.00 37.33	N
ATOM	1264	N	ASP A 687	16.950		1.00 38.86	C
MOTA	1265	CA	ASP A 687	17.751		1.00 39.39	Ċ
MOTA	1266	CB	ASP A 687	19.238		1.00 41.58	Č
MOTA	1267	CG	ASP A 687	19.834		1.00 42.64	Ö
ATOM	1268	OD1		19.569		1.00 39.90	Ö
ATOM	1269	OD2		20.586		1.00 39.11	Č
ATOM	1270	С	ASP A 687	17.274		1.00 39.52	Ö
ATOM	1271	0	ASP A 687	17.254		1.00 38.90	N
MOTA	1272	N	GLU A 688	16.896		1.00 40.57	C
MOTA	1273	CA	GLU A 688	16.427		1.00 43.83	Č
ATOM	1274	CB	GLU A 688	16.232		1.00 51.85	Č
MOTA	1275	CG	GLU A 688	17.391		1.00 56.49	Ċ
MOTA	1276	CD	GLU A 688	17.237		1.00 58.12	Ö
MOTA	1277	OE1		17.963		1.00 58.33	Ö
MOTA	1278	OE2		16.406		1.00 37.92	Č
MOTA	1279	С	GLU A 688	15.113		1.00 37.32	Õ
MOTA	1280	0	GLU A 688	14.974		1.00 35.67	Ŋ
MOTA	1281	N	ILE A 689	14.155		1.00 32.76	C
ATOM	1282	CA	ILE A 689	12.840		1.00 32.74	
ATOM	1283	CB	ILE A 689	11.963		1.00 32.12	Č
ATOM	1284	CG2		10.568		1.00 32.12	Č
MOTA	1285	CG1		11.888	27.897 -14.766 26.673 -15.241	1.00 31.81	Ċ
MOTA	1286	CD1		11.097	29.215 -11.327	1.00 30.27	C
ATOM	1287	С	ILE A 689	12.972	29.959 -10.616	1.00 29.85	Ō
MOTA	1288	0	ILE A 689	12.295	28.339 -10.831	1.00 27.25	· N
MOTA	1289	N	ARG A 690	13.838	28.217 -9.394	1.00 26.70	С
ATOM	1290	CA	ARG A 690	14.020 14.901	27.013 -9.061	1.00 26.23	С
MOTA	1291	CB	ARG A 690		26.699 -7.570	1.00 29.83	C
ATOM	1292	CG	ARG A 690			1.00 32.12	C
MOTA	1293	CD	ARG A 690			1.00 32.91	N
MOTA	1294	NE	ARG A 690			1.00 35.77	С
MOTA	1295	CZ	ARG A 690 ARG A 690	17.307	5.500	1.00 35.02	N
ATOM	1296	NH1				1.00 35.15	N
MOTA	1297	NH2				1.00 25.65	С
ATOM	1298	C				1.00 25.19	0
MOTA	1299	0		15.504		1.00 25.28	N
ATOM	1300	N				1.00 26.88	С
MOTA	1301	CA	MET A 691			1.00 27.69	С
MOTA	1302	CB	MET A 691			1.00 28.87	C
MOTA	1303	CG	MET A 691			1.00 33.69	S
MOTA	1304	SD	MET A 691			1.00 31.56	С
MOTA	1305	CE	MET A 691			1.00 27.25	C
MOTA	1306	C	MET A 691			1:00 27.08	0
ATOM . "		0	MET A 691			1.00 27.92	N
MOTA	1308	N	THR A 692			1.00 29.53	C
MOTA	1309	CA	THR A 692			1.00 28.67	C-
MOTA	1310	CB	THR A 692			1.00 32.07	0
ATOM	1311	OG1				1.00 28.06	C
ATOM	1312	CG2				1.00 29.68	С
ATOM	1313	С	THR A 692				,0
ATOM	1314	0	THR A 692		0 205	1.00 29.07	N
ATOM	1315	N	TYR A. 693				С
ATOM	1316	CA	TYR A 693	11.202			

				400	10 500	30.979	-7.248	1.00 27.45	С
ATOM	1317		TYR A		10.588 9.448	30.953	-8.226	1.00 27.19	С
ATOM	1318		TYR A			31.790	-8.050	1.00 27.66	С
ATOM	1319		TYR A		8.343	31.845	-9.004	1.00 28.20	С
ATOM	1320		TYR A		7.327	30.161	-9.371	1.00 25.22	C
ATOM	1321		TYR A		9.506		-10.325	1.00 24.86	С
ATOM	1322		TYR A		8.505		-10.145	1.00 26.65	C
ATOM	1323		TYR A		7.418		-11.121	1.00 26.67	0
MOTA	1324	OH	TYR A	693	6.444	32.556	-5.933	1.00 27.30	C
MOTA	1325		TYR A		12.019	32.899	-4.916	1.00 26.95	0
MOTA	1326	0	TYR A		11.431	32.341	-5.976	1.00 25.29	N
ATOM	1327	N	ILE A		13.329	32.566	-4.810	1.00 22.49	C
ATOM	1328	CA	ILE A		14.166	32.020	-5.043	1.00 22.05	C
ATOM	1329	CB	ILE A		15.590	32.558	-3.975	1.00 20.21	С
ATOM	1330	CG2	ILE A		16.555		-5.057	1.00 20.54	С
ATOM	1331	CG1	ILE A		15.548	30.492	-5.541	1.00 19.18	С
ATOM	1332	CD1	ILE A		16.820	29.831	-4.615	1.00 22.37	С
ATOM	1333	С	ILE A		14.211	34.079	-3.498	1.00 21.44	0
ATOM	1334	0	ILE A		14.083	34.575	-5.711	1.00 22.80	N
ATOM	1335	N	LYS A	695	14.385	34.814	-5.639	1.00 25.33	C
ATOM	1336	CA	LYS A		14.418	36.270	-6.961	1.00 25.07	C
ATOM	1337	CB	LYS A	695	14.918	36.866	-7.420	1.00 30.28	С
ATOM	1338	CG	LYS A		16.230	36.247	-7.420 -7.965	1.00 32.15	С
ATOM	1339	CD	LYS A		17.228	37.278	-9.407	1.00 30.01	С
ATOM	1340	CE	LYS A	695	16.937	37.648	-10.256	1.00 28.26	N
MOTA	1341	NZ	LYS A	695	16.956	4 • • • •	-5.319	1.00 25.73	С
ATOM	1342	С	LYS A		13.010	36.782	-4.694	1.00 24.12	0
ATOM	1343	0	LYS A		12.844	37.826	-5.739	1.00 27.02	N
ATOM	1344	N	GLU A		11.996	36.034	-5.468	1.00 30.00	С
ATOM	1345	CA	GLU A		10.621	36.435	-6.266	1.00 31.62	С
ATOM	1346	CB	GLU A		9.652	35.558	-6.443	1.00 35.63	С
ATOM	1347	CG	GLU A		8.249	36.134	-7.113	1.00 37.94	С
ATOM	1348	CD	GLU A		8.238	37.501	-8.115	1.00 38.78	0
MOTA	1349	OE1	GLU A		8.967	37.685	-6.640	1.00 37.89	0
ATOM	1350	OE2			7.486	38.388	-3.957	1.00 30.21	C
ATOM	1351	C	GLU A		10.388	36.299	-3.353	1.00 31.90	0
ATOM	1352	0	GLU A		9.678	37.108 35.282	-3.345	1.00 29.07	N
ATOM	1353	N	LEU A		10.998	35.282	-1.902	1.00 27.69	C
MOTA	1354	CA		697	10.882		-1.466	1.00 24.96	C
MOTA	1355	CB	_	697	11.573	33.700		1.00 25.29	С
MOTA	1356	CG		697	11.774		0.760	1.00 24.14	
ATOM	1357	CD1	_		10.430		0.321	1.00 24.08	
ATOM	1358	CD2			12.495		-1.235	1.00 28.29	
MOTA	1359	С	LEU A	4 697	11.561			1.00 28.81	
ATOM	1360	0	LEU A	1 697	11.003		_	1.00 27.70	Ŋ
MOTA	1361	N	GLY A		12.767 13.499			1.00 28.21	
MOTA	1362	CA	GLY A		12.693			1.00 28.68	С
ATOM	1363	С	GLY F	A 698	12.801			1.00 28.71	0
ATOM	1364	0	GLY A	A 698	11.890			1.00 28.92	N
ATOM	1365	N		A 699	11.054			1.00 30.57	C
MOTA	1366			A 699	10.401			1.00 31.39	C
MOTA	1367	CB	LYS A	A 699	11.356			1.00 32.68	C
ATOM	1368		LYS	A 699	10.593			1.00 35.34	, `C
MOTA	1369			A 699		_		1.00 38.47	C
ATOM	1370	CE	LYS	A 699	11.555			1.00 36.39	N
ATOM	1371	NZ		A 699	10.872				
MOTA	1372	С	LYS :	A 699	9.955 9.525			11	افات 0
, ATOM	1373	.0		A 699					N "
MOTA	1374			A 700	9.503			1.00 30.48	3 C
MOTA	1375			A 700	8.453				
MOTA	1376	CB		A 700	7.800				5 C
MOTA	1377	С		A 700	9.018			- 00 01 16	9 0
ATOM	1378			A 700	8.330				3 N
ATOM	1379			A 701	10.273			4 00 00 00	2 C
ATOM	1380	CA		A 701	10.941				2 C
ATOM	1381		ILE.	A 701	12.260			- 00 21 21	
ATOM	1382	CG	2 ILE	A 701	12.98	, 50.01			
							•		

		001	*** 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	ı	11.975	36.827	2.951	1.00 29.56	C
MOTA	1383	CG1			_		3.037	1.00 28.16	С
MOTA	1384	CD1	ILE A 703	l.	13.201	35.960			C
MOTA	1385	С	ILE A 703	l	11.274	40.595	3.142		
ATOM	1386	0	ILE A 703	i	11.193	41.149	4.240	1.00 36.90	0
			VAL A 702		11.662	41.229	2.042	1.00 39.58	N
MOTA	1387	N				42.640	2.070	1.00 42.77	С
ATOM	1388	CA	VAL A 702		12.002			1.00 42.44	С
ATOM	1389	CB	VAL A 702	2	12.752	43.057	0.791		
MOTA	1390	CG1	VAL A 702	2	12.914	44.569	0.741	1.00 41.22	C
			VAL A 70		14.112	42.389	0.767	1.00 42.49	С
MOTA	1391	CG2			10.733	43.460	2.221	1.00 45.14	C
ATOM	1392	С	VAL A 703				2.978	1.00 46.12	0
ATOM	1393	0	VAL A 70:	2	10.705	44.432			N
MOTA	1394	N	LYS A 703	3	9.684	43.062	1.506	1.00 47.91	
	1395	CA	LYS A 70		8.403	43.756	1.584	1.00 51.90	С
ATOM					7.341	43.029	0.750	1.00 51.46	С
ATOM	1396	CB				43.747	0.688	1.00 51.03	С
MOTA	1397	CG	LYS A 703		5.997			1.00 51.73	С
ATOM	1398	CD	LYS A 70	3	5.135	43.208	-0.447		Č
ATOM	1399	CE	LYS A 70	3	3.858	44.012	-0.611	1.00 50.49	
	1400	NZ	LYS A 70		3.125	43.619	-1.845	1.00 51.56	N
ATOM			LYS A 70		7.977	43.798	3.048	1.00 55.10	С
ATOM	1401	С				44.742	3.490	1.00 55.48	0
MOTA	1402	0	LYS A 70		7.328			1.00 59.04	N
MOTA	1403	N	ARG A 70	4	8.352	42.762	3.792		
ATOM	1404	CA	ARG A 70	4	8.047	42.671	5.215	1.00 62.52	C
	1405	CB	ARG A 70		8.384	41.262	5.712	1.00 61.41	C
MOTA					7.514	40.737	6.833	1.00 59.47	С
MOTA	1406	CG	ARG A 70				6.714	1.00 59.10	С
MOTA	1407	CD	ARG A 70		7.402	39.226			N
ATOM	1408	NE	ARG A 70	4	6.822	38.601	7.898		
ATOM	1409	CZ	ARG A 70	4	7.410	38.578	9.090	1.00 59.78	С
		NH1	ARG A 70		8.597	39.149	9.253	1.00 60.35	N
ATOM	1410				6.818	37.982	10.119	1.00 59.74	N
MOTA	1411	NH2	ARG A 70				5.857	1.00 65.69	С
ATOM	1412	C	ARG A 70		8.956	43.721			Ō
ATOM	1413	0	ARG A 70	4	8.757	44.918	5.647	— • • •	
ATOM	1414	N	GLU A 70	5	9.956	43.285	6.619	1.00 68.89	N
	1415	CA	GLU A 70		10.898	44.218	7.240	1.00 71.53	С
MOTA					10.193	45.121	8.267	1.00 70.37	С
ATOM	1416	CB	GLU A 70			46.411	7.672	1.00 68.88	С
MOTA	1417	CG	GLU A 70		9.634			1.00 67.84	С
ATOM	1418	CD	GLU A 70	5	10.556	47.019	6.622	••	
MOTA	1419	OE1	GLU A 70	5	11.718	47.342	6.952	1.00 66.93	0
	1420	OE2			10.117	47.171	5.463	1.00 67.14	0
MOTA				•	12.142	43.596	7.886	1.00 73.65	С
ATOM	1421	C	-			42.406	8.239	1.00 73.25	0
MOTA	1422	0	GLU A 70		12.179			1.00 75.72	N
MOTA	1423	N	GLY A 70	6	13.158	44.444	8.028		C
ATOM	1424	CA	GLY A 70	6	14.427	44.056	8.613	1.00 77.54	
ATOM	1425	C	GLY A 70	6 .	15.432	45.157	8.325	1.00 78.76	C
			GLY A 70		15.403	45.767	7.249	1.00 77.81	0
MOTA	1426	0			16.313	45.426	9.285	1.00 80.16	N
ATOM	1427	N	ASN A 70				9.116	1.00 81.05	С
ATOM	1428	CA	ASN A 70	7	17.322	46.466			Č
ATOM	1429	CB	ASN A 70	7	17.788	46.987	10.485		
ATOM	1430	CG	ASN A 70	7	18.264	48.441	10.439	1.00 81.96	C
	1431	OD1		7	19.170	48.792	9.677	1.00 81.94	0
ATOM					17.652	49.290	11.264	1.00 80.25	N
ATOM	1432		ASN A 70				8.343	1.00 81.72	С
MOTA	1433	С	ASN A 70		18.504	45.885			Ö
ATOM	1434	0	ASN A 70	7	19.637	45.881	8.831	1.00 82.56	
	1435	N	SER A 70		18.219	45.381	7.141	1.00 81.77	N
MOTA			SER A 70		19.228	44.788	6.260	1.00 80.86	C
MOTA	1436	CA				45.832	5.914	1.00 81.99	С
· ATOM	1437	CB	SER A 70		20.302		5.012	1.00 82.02	0
MOTA	1438	OG	SER A 70		21.266	45.310			ı, Ĉ
ATOM	1439	С	SER A 70	8	19.895			1.00 79.74	
	1440	Ö	SER A 70		20.396	42.690	6.101	47.00 79.98	0
ATOM			SER A 70		19.897	43.427	8.170	1.00 7783	Ŋ.
ATOM	1441	N			20.510		8.849	1.00 75.92	С
MOTA	1442	CA	SER A 70				10.128	1.00 75.37	C
ATOM	1443	CB	SER A 70		21.209				Ö
ATOM	1444	OG	SER A 70	9	22.195		9.838	1.00 76.62	
	1445	C	. SER A 70		19.496	41.199	9.198	1.00 73.87	C
ATOM			SER A 70		19.838	40.013	9.254	1.00 72.97	0
MOTA	1446	0					9.434	1.00 71.52	N
ATOM	1447.	N	GLN A 73		18.252		9.787	1.00 68.86	C
ATOM	1448	CA	GLN A 71	LQ	17.206	40.662	9.101	1.00 00.00	•

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		CB GLN A 710	16.140	41.340	10.654	1.00 71.12	C
MOTA	1449		4 - 070	40.349	11.431	1.00 73.78	C
MOTA	1450	CG GLN A 710 CD GLN A 710	1.6.001	39.273	12.145	1.00 74.98	o
ATOM	1451 1452	OE1 GLN A 710	010	39.580	12.907	1.00 75.50	Ŋ
MOTA	1452	NE2 GLN A 710	4 - M - 1	38.006	11.900	1.00 75.45 1.00 65.05	C
MOTA	1454	C GLN A 710		40.018	8.560		ŏ
MOTA	1455	O GLN A 710		38.882	8.630		N
ATOM ATOM	1456	N ASN A 71:	1 16.540	40.735	7.437	1.00 60.66 1.00 55.86	Ċ
MOTA	1457	CA ASN A 71	1 15.978	40.151	6.228	1.00 56.63	C
ATOM	1458	CB ASN A 71	1 ·15.851	41.194	5.107	1.00 57.48	C
ATOM	1459	CG ASN A 713	16.898	42.283	5.186 5.221	1.00 58.78	0
ATOM	1460	OD1 ASN A 713		42.010	5.198	1.00 58.96	N
ATOM	1461	ND2 ASN A 71		43.533 38.962	5.786	1.00 51.87	C
ATOM	1462	C ASN A 71		37.991	5.230	1.00 51.44	0
ATOM	1463	O ASN A 71		39.036	6.052	1.00 46.43	Ŋ
MOTA	1464	N TRP A 713		37.952	5.712	1.00 42.91	C
ATOM	1465	CA TRP A 71		38.436	5.704	1.00 39.68	C
MOTA	1466	CB TRP A 71		38.997	4.395	1.00 37.68	C
MOTA	1467			38.354	3.119	1.00 36.30	C
ATOM	1468	CD2 TRP A 71 CE2 TRP A 71		39.260	2.156	1.00 36.03	C
ATOM	1469 1470	CE3 TRP A 71		37.098	2.698	1.00 36.25	C
MOTA	1471	CD1 TRP A 71		40.229	4.161	1.00 37.00 1.00 37.53	Ŋ
ATOM ATOM	1472	NE1 TRP A 71		40.396	2.818	1.00 37.53 1.00 35.36	C
ATOM	1473	CZ2 TRP A 71	2 21.300	38.953	0.791 1.343	1.00 34.90	C
ATOM	1474	CZ3 TRP A 71		36.791	0.406	1.00 34.68	C
ATOM	1475	CH2 TRP A 71		37.716 36.842	6.732	1.00 42.51	С
MOTA	1476	C TRP A 71		35.662	6.392	1.00 43.40	0
MOTA	1477	O TRP A 71		37.231	7.994	1.00 41.07	N
ATOM	1478	N GLN A 71		36.259	9.055	1.00 38.78	C
ATOM	1479	CA GLN A 71 CB GLN A 71		36.968	10.394	1.00 43.12	C
MOTA	1480	CB GLN A 71 CG GLN A 71		36.075	11.599	1.00 50.56	C
MOTA	1481 1482	CD GLN A 71		35.208	11.456	1.00 55.94 1.00 58.36	0
ATOM ATOM	1483	OE1 GLN A 71	.3 21.006	35.536	10.692	1.00 58.36 1.00 55.63	N
ATOM	1484	NE2 GLN A 71	.3 20.137	34.111	12.202 8.762	1.00 35.32	C
ATOM	1485	C GLN A 71		35.527	8.702	1.00 33.60	0
ATOM	1486	O GLN A 71	10	34.315 36.270	8.301	1.00 31.78	N
MOTA	1487	N ARG A 71		35.681	7.995	1.00 29.47	С
ATOM	1488	CA ARG A 71			7.771	1.00 26.76	C
ATOM	1489	CB ARG A 71 CG ARG A 71		36.184	7.586	1.00 24.13	C
MOTA	1490				7.616	1.00 23.66	C N
ATOM	1491 1492	CD ARG A /1 NE ARG A 71		36.621	7.589	1.00 21.91	C
ATOM	1493	CZ ARG A 71			8.585	1.00 21.33 1.00 16.47	N
ATOM ATOM	1494	NH1 ARG A 71	10.399		9.700	1.00 16.47 1.00 23.12	N
MOTA	1495	NH2 ARG A 71			8.455 6.762	1.00 28.68	C
MOTA	1496	C ARG A 71				1.00 27.60	0
MOTA	1497	O ARG A 71			5.814	1.00 27.84	N
MOTA	1498	N PHE A 7				1.00 26.96	C
MOTA	1499	CA PHE A 7				1.00 25.94	C
MOTA	1500	CB PHE A 71 CG PHE A 71		·		1.00 26.27	C
MOTA	1501		· · ·		1.454	1/	C
MOTA	1502	CD1 PHE A 7.			2.124		C
MOTA	1503 1504	CE1 PHE A 7		33.423	0.278		C C
MOTA	1505	CE2 PHE A 7		33.126			, C
MOTA MOTA	1506	CZ PHE A 7:	15 17.895	32.909			c
ATOM	1507	C PHE A 7	15 16.750			-	ő
MOTA	1508	O PHE A 7	15 16.454				N
ATOM	1509	N TYR A 7	16 17.578				C
ATOM	1510	CA TYR A 7			_ 101		С
ATOM	1511	CB TYR A 7					C
ATOM	1512	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			404	1.00 32.43	C
ATOM	1513				- 600		С
MOTA	1514	CET IIV A					

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ATOM	1515	CD2	TYR A	716	21.322	30.640	7.560	1.00 33.66	
ATOM	1516	CE2	TYR A	716	22.004	29.565	8.124	1.00 34.94	C
	1517	CZ	TYR A		21.444	28.884	9.189	1.00 36.33	C
ATOM		•	TYR A		22.116	27.807	9.727	1.00 38.02	0
MOTA	1518	OH			17.164	31.018	7.244	1.00 29.13	C
MOTA	1519	С	TYR A			29.801	7.096	1.00 31.03	0
MOTA	1520	0	TYR A		17.142			1.00 28.67	N
ATOM	1521	N	GLN A	717	16.312	31.663	8.039		Č
MOTA	1522	CA	GLN A	717	15.280	30.955	8.795	1.00 28.75	
ATOM	1523	CB	•	717	14.569	31.907	9.760	1.00 29.50	C
			GLN A		15.473	32.513	10.821	1.00 35.28	C
MOTA	1524	CG			14.723	33.450	11.772	1.00 39.40	С
ATOM	1525	CD		717			11.371	1.00 39.87	0
MOTA	1526	OE1	GLN A	717	14.199	34.506		1.00 41.33	N
ATOM	1527	NE2	GLN A	717	14.666	33.061	13.043		C
ATOM	1528	С	GLN A	717	14.245	30.323	7.862	1.00 27.89	
ATOM	1529	Ō		717	13.829	29.189	8.069	1.00 27.43	0
		N		718	13.833	31.061	6.838	1.00 25.98	N
ATOM	1530			718	12.857	30.551	5.889	1.00 25.25	С
ATOM	1531	CA				31.705	5.056	1.00 23.28	С
ATOM	1532	CB	LEU A		12.286		5.858	1.00 23.59	С
MOTA	1533	CG	LEU A	718	11.584	32.812			Ċ
ATOM	1534	CD1	LEU A	718	10.896	33.760	4.901		č
MOTA	1535	CD2	LEU A	718	10.561	32.212	6.830	1.00 22.06	
ATOM	1536	C	LEU A		13.435	29.455	4.980	1.00 26.33	C
		-	LEU A		12.765	28.443	4.731	1.00 27.82	0
MOTA	1537	0			14.664	29.635	4.489	1.00 24.86	N
ATOM	1538	N	THR A			28.615	3.631	1.00 24.23	С
ATOM	1539	CA	THR A	719	15.275		2.944	1.00 23.05	C
MOTA	1540	CB	THR A	719	16.593	29.113		1.00 24.18	Ö
ATOM	1541	OG1	THR A	719	17.495	29.649	3.922		Č
MOTA	1542	CG2	THR A	719	16.276	30.175	1.898	1.00 21.38	
ATOM	1543	С	THR A		15.563	27.355	4.452	1.00 24.68	C .
	1544	Ö	THR A		15.558	26.235	3.926	1.00 23.31	0
MOTA			LYS A		15.811	27.545	5.746	1.00 25.26	N
MOTA	1545	N			16.057	26.429	6.650	1.00 25.39	C
MOTA	1546	CA	LYS A			26.953	8.021	1.00 27.88	С
MOTA	1547	CB	LYS A	720	16.475		8.261	1.00 35.07	С
ATOM	1548	CG	LYS A		17.985	26.951			Ċ
MOTA	1549	CD	LYS A	720	18.487	25.526	8.510		C
MOTA	1550	CE	LYS A	720	19.987	25.486	8.777	1.00 41.66	
ATOM	1551	NZ		720	20.466	24.101	9.077	1.00 42.32	N
	1552	C	-	720	14.764	25.609	6.761	1.00 24.59	C
ATOM				720	14.784	24.379	6.702	1.00 24.95	0
MOTA	1553	0			13.635	26.297	6.898	1.00 22.78	N
ATOM	1554	N		721		25.623	7.000	1.00 21.27	С
MOTA	1555	CA	LEU A		12.352		7.212	1.00 17.24	, C
ATOM	1556	CB	,	721	11.228	26.641			Č
ATOM	1557	CG	LEU A	721	9.811	26.041	7.225		Č
MOTA	1558	CD1	LEU A	721	9.700	24.961	8.310	1.00 10.42	
ATOM	1559	CD2		721	8.784	27.149	7.433	1.00 14.20	C
	1560	C	LEU A		12.085	24.797	5.739	1.00 21.96	С
MOTA	_				11.668	23.643	5.830	1.00 22.78	0
ATOM	1561	0				25.385	4.567	1.00 20.84	N
MOTA	1562	N	LEU A		12.316	24.661	3.315	1.00 19.20	С
MOTA	1563	CA	LEU A		12.110			1.00 13.20	Č
MOTA	1564	CB	LEU A	722	12.528	25.523	2.119		Č
ATOM	1565	CG	LEU A	722	11.665	26.766	1.865	1.00 18.22	
ATOM	1566	CD1			12.195	27.539	0.667	1.00 15.79	C
	1567		LEU A		10.213	26.333	1.614	1.00 18.71	С
MOTA					12.907	23.356	3.333	1.00 19.29	С
ATOM	1568	C	LEU A		12.369	22.293	3.025	1.00 21.96	. '0
MOTA	1569	0		722		23.430	3.700	1.00 17.90	N
ATOM	1570	N	ASP A		14.181				C:1
MOTA	1571	· CA	ASP A	_. 723	15.016	22.235	3.769	1.00,119.33	
ATOM	1572	CB	ASP A	723	. 16.394	22.567	4.341	1.00 19.49	C
ATOM	1573	CG	ASP A		17.305	23.269	3.346	1.00 23.73	C
			ASP A		16.839	23.680	2.254	1.00 23.02	0
ATOM	1574				18.504	23.410	3.677	1.00 23.24	0
MOTA	1575		ASP A			21.140	4.647	1.00 21.50	С
MOTA	1576	С	ASP A		14.395			1.00 21.79	0
ATOM	1577	0	ASP A		14.368	19.962	4.259	1.00 21.75	N
ATOM	1578	N	SER A	724	13.905	21.529	5.826		
ATOM	1579	CA	SER A		13.324	20.580	6.767	1.00 21.43	C
	_	CB	SER A		12.933	21.279	8.081	1.00 24.25	С
ATOM	1580	CD	July 11	, 1					

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ATOM	1581	QG	SER A 724	11.953	22.284	7.891	1.00 30.59	0
	1582	C	SER A 724	12.138	19.828	6.190	1.00 21.15	C
ATOM			_	11.824	18.719	6.631	1.00 20.68	0
MOTA	1583	0	SER A 724			5.185	1.00 20.81	N
ATOM	1584	N	MET A 725	11.492	20.411			C
ATOM	1585	CA	MET A 725	10.359	19.744	4.557	1.00 19.28	
ATOM	1586	CB	MET A 725	9.784	20.612	3.438	1.00 17.21	C
				9.088	21.875	3.958	1.00 17.72	· C
MOTA	1587	CG .				5.174	1.00 18.39	S
MOTA	1588	SD	MET A 725	7.756	21.536			Č
MOTA	1589	CE	MET A 725	6.758	20.309	4.274		
MOTA	1590	С	MET A 725	10.791	18.380	4.015	1.00 18.66	C
	1591	Ö	MET A 725	9.990	17.433	3.972	1.00 18.08	0
MOTA				12.060	18.275	3.622	1.00 17.15	N
ATOM	1592	N	HIS A 726			3.100	1.00 18.01	С
MOTA	1593	CA	HIS A 726	12.594	17.015			Ċ
MOTA	1594	CB	HIS A 726	14.058	17.168	2.683		
MOTA	1595	CG	HIS A 726	14.240	17.744	1.317	1.00 16.42	C
ATOM	1596	CD2		14.997	18.778	0.879	1.00 15.93	С
				13.603	17.236	0.205	1.00 15.81	N
ATOM	1597	ND1			17.933	-0.859	1.00 16.01	C
ATOM	1598	CE1		13.959			1.00 16.64	N
ATOM	159 9	NE2	HIS A 726	14.806	18.873	-0.477		
ATOM	1600	С	HIS A 726	12.502	15.912	4.139	1.00 18.05	C
MOTA	1601	0	HIS A 726	12.198	14.773	3.814	1.00 18.66	0
		_	GLU A 727	12.768	16.272	5.391	1.00 20.56	N
MOTA	1602	N		12.728	15.328	6.499	1.00 22.84	C
MOTA	1603	CA	GLU A 727			7.692	1.00 22.48	C
MOTA	1604	CB	GLU A 727	13.481	15.893			Č
ATOM	1605	CG	GLU A 727	13.963	14.825	8.620	1.00 24.12	•
ATOM	1606	CD	GLU A 727	14.630	15.392	9.846	1.00 29.38	C
ATOM	1607	OE1	GLU A 727	15.395	16.380	9.704	1.00 31.41	0
				14.396	14.837	10.945	1.00 28.96	0
MOTA	1608	OE2			15.025	6.905	1.00 23.99	C
ATOM	1609	C	GLU A 727	11.292			1.00 25.80	0
ATOM	1610	O	GLU A 727	10.976	13.904	7.304		N
MOTA	1611	N	VAL A 728	10.428	16.031	6.824	1.00 23.70	
ATOM	1612	CA	VAL A 728	9.028	15.827	7.153	1.00 24.40	С
	1613	CB	VAL A 728	8.234	17.142	7.040	1.00 24.48	C
ATOM			VAL A 728	6.744	16.875	7.249	1.00 24.28	С
ATOM	1614	CG1			18.144	8.070	1.00 22.75	C
ATOM	1615	CG2	VAL A 728	8.756			1.00 25.55	C
MOTA	1616	C	VAL A 728	8.474	14.804	6.163		ő
ATOM	1617	0	VAL A 728	7.863	13.811	6.562		
ATOM	1618	N	VAL A 729	8.711	15.046	4.872	1.00 25.02	N
ATOM	1619	CA	VAL A 729	8.252	14.148	3.816	1.00 24.40	С
	1620	CB	VAL A 729	8.672	14.674	2.405	1.00 24.45	C
ATOM				8.302	13.664	1.327	1.00 22.33	C
MOTA	1621	CG1	VAL A 729		16.004	2.115	1.00 24.92	С
ATOM	1622	CG2		7.974			1.00 24.66	Ċ
ATOM	1623	C	VAL A 729	8.791	12.727	4.028		
MOTA	1624	0	VAL A 729	8.054	11.750	3.881	1.00 25.19	0
MOTA	1625	N	GLU A 730	10.069	12.609	4.377	1.00 25.70	N
ATOM	1626	CA	GLU A 730	10.684	11.302	4.615	1.00 26.92	С
		CB	GLU A 730	12.110	11.505	5.127	1.00 30.97	С
MOTA	1627			12.924	10.220	5.202	1.00 39.85	С
ATOM	1628	CG	GLU A 730			5.784	1.00 44.69	C
ATOM	1629	CD	GLU A 730	14.322	10.424			Ő
ATOM	1630	OE1	GLU A 730	14.767	11.596	5.917	1.00 45.55	
MOTA	1631	OE2	GLU A 730	14.977	9.397	6.091	1.00 48.01	0
ATOM	1632	С	GLU A 730	9.876	10.440	5.622	1.00 26.45	C
			GLU A 730	9.757	9.218	5.468	1.00 24.63	0
ATOM	1633	0			11.096	6.637	1.00 23.97	N
ATOM	1634	N	ASN A 731	9.320			•	C
MOTA	1635	·CA	ASN A 731	8.512	10.450	7.666		
ATOM	1636	CB	ASN A 731	8.365	11.389	8.859	1.00 23.25	. , C
ATOM	1637	CG	ASN A 731	' ' 9.618	11.463	9.693	%1.00 26.42	C C
	1638		ASN A 731	9.931	10.527	10.435	1.00 28.31	٠ ٥
ATOM				10.353	-	9.576	1.00 25.72	N
MOTA	1639	ND2		<u>.</u>	10.041	7.202	1.00 21.17	C
ATOM	1640	С	ASN A 731	7.120				Ö
ATOM	1641	0	ASN A 731	6.633	8.962	7.542	1.00 19.90	
ATOM	1642	N	LEU A 732	6.478	10.926	6.445	1.00 21.84	N
ATOM	1643	CA	LEU A 732	5.128	10.704	5.933	1.00 20.77	C
			LEU A 732	4.594	12.002	5.345	1.00 21.46	C
ATOM	1644	CB					1.00 22.65	С
ATOM	1645	CG	LEU A 732	4.620			1.00 20.86	Č
ATOM	1646	CD1	LEU A 732	4.136	14.434	5.632	1.00 20.00	•

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ATOM	1647	CD2	T.EU	A 732	3.742	12.812	7.546	1.00 19.65	C
		C		A 732	5.060	9.604	4.877	1.00 21.08	C
ATOM	1648				4.022	8.965	4.704	1.00 19.47	0
MOTA	1649	0		A 732		9.388	4.172	1.00 21.05	N
ATOM	1650	N		A 733	6.168			1.00 22.10	С
ATOM	1651	CA	LEU A	A 733	6.221	8.362	3.137		Č
ATOM	1652	CB	LEU !	A 733	7.391	8.616	2.184	1.00 21.78	
ATOM	1653	CG		A 733	7.340	9.922	1.382	1.00 22.39	C
	1654	CD1		A 733	8.593	10.050	0.522	1.00 23.05	С
ATOM				A 733	6.091	9.933	0.523	1.00 21.13	С
ATOM	1655	CD2				6.973	3.728	1.00 22.69	C
ATOM	1656	С		A 733	6.352		3.030	1.00 23.30	0
MOTA	1657	0	LEU A	A 733	6.176	5.982			N
ATOM	1658	N	ASN 3	A 734	6.663	6.903	5.017	1.00 22.52	
ATOM	1659	CA	ASN 3	A 734	6.817	5.623	5.696	1.00 24.39	C
ATOM	1660	CB		A 734	7.716	5.788	6.921	1.00 22.11	C
	1661	CG		A 734	9.188	5.901	6.549	1.00 24.38	С
ATOM				A 734	9.979	6.497	7.284	1.00 25.50	0
MOTA	1662	OD1			9.564	5.323	5.408	1.00 21.41	N.
MOTA	1663	ND2		A 734			6.121	1.00 26.57	C
MOTA	1664	С		A 734	5.474	5.037		1.00 26.02	Ō
MOTA	1665	0	ASN 2	A 734	5.411	3.922	6.653		N
ATOM	1666	N	TYR 2	A 735	4.399	5.784	5.887	1.00 25.48	
ATOM	1667	CA	TYR Z		3.089	5.302	6.273	1.00 26.47	C
	1668	CB	TYR		2.208	6.473	6.727	1.00 28.08	C
MOTA			TYR		2.728	7.110	7.998	1.00 30.37	С
MOTA	1669	CG			3.453	8.303	7.965	1.00 30.38	C
MOTA	1670	CD1		A 735			9.121	1.00 31.54	С
ATOM	1671	CE1		A 735	4.020	8.831		1.00 29.34	C
ATOM	1672	CD2	TYR I	A 735	2.579	6.466	9.230		Č
ATOM	1673	CE2	TYR I	A 735	3.145	6.986	10.387		Ċ
ATOM	1674	CZ	TYR :	A 735	3.866	8.164	10.327	1.00 32.07	
ATOM	1675	OH	TYR Z	A 735	4.463	8.659	11.469	1.00 35.32	0
MOTA	1676	C		A 735	2.414	4.485	5.183	1.00 27.80	C
	1677	ő	TYR		2.763	4.575	3.996	1.00 26.56	0
MOTA				A 736	1.450	3.673	5.609	1.00 27.77	N
MOTA	1678	N			0.730	2.788	4.712	1.00 28.48	С
MOTA	1679	CA		A 736			5.495	1.00 29.54	C
ATOM	1680	CB		A 736	-0.232	1.895		1.00 33.33	Š
ATOM	1681	SG	-	A 736	-1.077	0.675	4.454		Č
ATOM	1682	C	CYS	A 736	-0.044	3.529	3.654	1.00 28.99	
ATOM	1683	0	CYS	A 736	-0.900	4.361	3.958	1.00 30.75	. 0
ATOM	1684	N		A 737	0.257	3.209	2.402	1.00 27.64	Ŋ
	1685	CA		A 737	-0.424	3.841	1.288	1.00 28.07	С
ATOM		CB		A 737	0.461	3.820	0.049	1.00 29.51	С
MOTA	1686			A 737	-0.276	4.156	-1.215	1.00 31.81	C
ATOM	1687	CG			-0.915	5.385	-1.360	1.00 32.37	С
ATOM	1688	CD1	_	A 737		3.236	-2.258	1.00 32.43	С
ATOM	1689	CD2		A 737	-0.347			1.00 33.33	C
ATOM	1690	CE1	PHE	A 737	-1.615	5.697	-2.530		Ç
ATOM	1691	CE2	PHE	A 737	-1.047	3.540	-3.436	·	Ĉ
ATOM	1692	CZ	PHE	A 737	-1.679	4.772	-3.570	1.00 32.10	
ATOM	1693	С	PHE	A 737	-1.747	3.140	1.002	1.00 27.87	C
ATOM	1694	Ö	-	A 737	-2.763	3.79 9	0.771	1.00 27.51	O
	1695	N		A 738	-1.715	1.811	1.004	1.00 26.66	N
ATOM					-2.911	1.031	0.748	1.00 27.90	C
MOTA	1696	CA		A 738		0.925	-0.767	1.00 28.34	С
MOTA	1697	CB		A 738	-3.191			1.00 29.15	Ç
ATOM	1698	CG		A 738	-2.168	0.121	-1.538	1.00 28.82	Č
ATOM	1699	CD	GLN :	A 738	-2.483	-0.022	-3.021		
ATOM	1700	OE1	GLN :	A 738	-1.592	-0.298	-3.822	1.00 32.21	0
ATOM	1701	NE2	GLN	A 738	-3.745	0.155	-3.389	1.00 28.71	N
	1702	C		A 738	-2.841	-0.391	1.332	1.00 28.35	С
MOTA				A 738		~-0.957	1.569	1.00 30.41	0
MOTA		::O N			-4.029		1.530	1.00 27.32	N.
MOTA	1704	N	•	A 739		-2.234	2.048	1.00 27.03	C
ATOM	1705	CA		A 739	-4.261			1.00 26.21	Č
ATOM	1706	CB	THR	A 739	-5.652	-2.203	2.720		Õ
ATOM	1707	OG1	THR :	A 739	-5.504	-2.169	4.151	1.00 28.10	
ATOM	1708	CG2	THR	A 739	-6.482	-3.371	2.267	1.00 25.04	C
ATOM	1709	C		A 739	-4.146	-3.290	0.935	1.00 28.52	C
	1710	Ö		A 739	-4.088	-2.931	-0.236	1.00 27.95	0
MOTA				A 740	-4.056	-4.567-	1.306	1.00 28.47	N
ATOM-	1711	N			-4.000		0.333	1.00 28.92	C
MOTA	1712	CA	rnt.	A 740	-4.000	5.050	0.000		-

			a
	1713 CB PHE A 740	-3.730 -6.986 1.002 1.00 28.60	C C
ATOM	1713 CB PHE A 740 1714 CG PHE A 740	-2.275 - 7.333 1.001 1.00 27.97	C
MOTA	1715 CD1 PHE A 740	-1.443 -6.779 2.003 $-1.00.28.56$	С
MOTA	1716 CD2 PHE A 740	-1.724 - 8.234 0.131 1.00 26.87	С
ATOM	1717 CE1 PHE A 740	-0.065 7.56 2 142 1 00 25.73	C
ATOM ATOM	1718 CE2 PHE A 740	-0.339 -0.330 1 006 1 00 25.29	C
ATOM	1719 CZ PHE A 740	0.462 7.540 -0.396 1.00 29.22	C
ATOM	1720 C PHE A 740	-5.351 -3.050 1 500 1 00 28.56	0
MOTA	1721 O PHE A 740	-5.400 -5.545 0.319 1.00 30.16	N
MOTA	1722 N LEU A 741	-6.451 5.405 -0.305 1.00 31.41	C
ATOM	1723 CA LEU A 741	0.742 1.00 29.37	C
ATOM	1724 CB LEU A 741	0.455 1.00 29.03	C
ATOM	1725 CG LEU A 741	1 316 1.00 24.58	C
ATOM	1726 CD1 LEU A 741	E 575 -1 013 1.00 23.00	C
ATOM	1727 CD2 LEU A 741	-7 830 -4.381 -1.385 1.00 34.1Z	Ö
ATOM	1728 C LEU A 741	200 4 631 -2 495 1.00 34.37	И
ATOM	1729 O LEU A 741	-7.330 -3.182 -1.060 1.00 30.41	C
ATOM	1730 N ASP A 742	-7 312 -2.052 -1.998 1.00 39.03	Č
MOTA	1731 CA ASP A 742	-6.699 - 0.788 - 1.367 1.00 41.33	Ċ
ATOM	1732 CB ASP A 742	-7 AA7 -0.314 -0.130 1.00 44.0C	ö
ATOM	1733 CG ASP A 742 1734 OD1 ASP A 742	-8 703 -0.337 -0.137 1.00 44.30	Ŏ
MOTA	742	-6.770 0.097 0.844 1.00 41.55	C
MOTA		-6.497 -2.383 -3.233 1.00 39.59	0
MOTA	n 742	-6.851 -1.982 -4.341 1.00 30.40	N
ATOM	**** 7/2	-5.398 -3.103 4 167 1 00 41.01	С
ATOM	1738 N LYS A 743 1739 CA LYS A 743	-4.543 -3.469 -4.101 1 00 39.01	С
MOTA	1740 CB LYS A 743	-3.218 -4.045 -3.00 38.60	C
ATOM	1741 CG LYS A 743	-2.246 -4.390 F 628 1 00 38.68	C
ATOM ATOM	1742 CD LYS A 743	-1.893 -3.100 -6.722 1.00 39.76	C
ATOM	1743 CE LYS A 743	2 370 -7 611 1.00 39.51	N
ATOM	1744 NZ LYS A 743	-0.373	C
ATOM	1745 C LYS A 743	-5.201 1.00 42.58	O
ATOM	1746 O LYS A 743	5 5 5 5 5 6 -4 547 1.00 43.37	N N
ATOM	1747 N THR A 744	6 653 -5 318 1.00 43.04	C
MOTA	1748 CA THR A 744	-6 836 -7.758 -4.392 1.00 44.90	ő
ATOM	1749 CB THR A 744 1750 OG1 THR A 744	-5 747 -8.349 -3.6/5 1.00 1.00 A	Č
ATOM	men n 7//	-7.546 -8.839 -5.206 1.00 47.40	C
MOTA	7/4	-1.432 -0.100 - 0.00 1 7 75	0
ATOM	1752 C THR A 744 1753 O THR A 744	-/.654 -0.755 F 773 v1 00 49.80	N
ATOM	1754 N MET A 745	-8.154 -5.160 -3.773 1.00 52.76	C
ATOM	1755 CA MET A 745	-9.259 -4.025 -6.00 1 00 54.50	С
ATOM ATOM	1756 CB MET A 745	-10.380 mg.155 -4.647 1.00 59.16	C
ATOM	1757 CG MET A 745	10.005 -4.619 -3.844 1.00 66.09	S.
ATOM	1758 SD MET A 745	11 041 -2 945 -3.284 1.00 64.45	C
ATOM	1759 CE MET A 745	$\frac{-11.941}{0.005}$ $\frac{-3.476}{-7.449}$ $\frac{1.00.53.67}{1.00}$	C
MOTA	1760 C MET A 745	-9 512 -3.095 -8.381 1.00 55.39	N
ATOM	1761 O MET A 745	-7.629 -2.922 -7.167 $1.00.53.40$	C
MOTA	1762 N SER A 746	-7 107 -1.807 -7.956 1.00 54.61 57	Č
MOTA	1763 CA SER A 746 1764 CB SER A 746	-6.260 -0.874 -1.077 1.00 51.74	Ō
ATOM	746	-7.059 -0.166 -6.137 1.00 54 77	C
MOTA		-6.267 -2.252 -9.151 1.00 51.13	, 0
MOTA	1767 O SER A 746	5.656 -1.422 -9.827 1.00 53.10	N
MOTA	17CO N TIE A 747	-6.235 -3.552 -9.427 1.00 53.35	. С
ATOM	17CO CA TIELA 747	-5.420	C
ATOM	1770 CD TIE A 747	-3.910 -3.012 -0.207 1 00 50.58	С
ATOM	1773 CC2 TIE A 747	-3.430 4.330 1 FO1 1 NO 51.96	C
ATOM	1770 CC1 TIE A 747	-3.09/ 3.026 1 00 53.37	С
MOTA	1772 CD1 TIE A 747	-1.639 5.130 -10.859 1.00 52.81	C
ATOM MOTEA	1774 C ILE A 747	-5.864 6.307 -9.969 1.00 53.50	0
MOTA MOTA	1775 O ILE A 747	-5.964 5.35 -12 142 1.00 51.77	N
ATOM	1776 N GLU A 748	-5.567 3.003 -12 614 1.00 51.90	C
· ATOM	1777 CA GLU A 748	-5.778 -7.204 -12.614 1.00 54.94 -5.972 -7.217 -14.131 1.00 54.94	С
ATOM	CD CIII A 748	-3.312	
11100			

			-4.810 -6.566 -14.860 1.00 61.17	С
MOTA	1779	CG GLU A 748	-4.939 -6.627 -16.363 1.00 64.72	С
MOTA	1780	CD GLU A 748	-4.555 0.027 1.00 66 EA	0
ATOM	1781	OE1 GLU A 748	20.000 -0.220 10.002 1.00 66 74	0
MOTA	1782	OE2 GLU A 748	23.900 7.000 21.00 40 12	C
ATOM	1783	C GLU A 748	-4.J2/ -0.004 12.200 1 00 40 0A	Ō
MOTA	1784	O GLU A 748	-3.410 -7.403 12.012 - 00 AF 70	Ň
ATOM	1785	N PHE A 749	24.700	C
ATOM	1786	CA PHE A 749	-3.601 -10.153 -11.609 1.00 43.81	C
ATOM	1787	CB PHE A 749	-4.093 -11.596 -11.468 1.00 41.95	
ATOM	1788	CG PHE A 749	-3.156 -12.481 -10.698 1.00 39.45	C
	1789	CD1 PHE A 749	-2.822 - 12.181 - 9.385 1.00 39.11	C
ATOM	1790	CD2 PHE A 749	-2.613 -13.615 -11.282 1.00 39.11	С
ATOM		CE1 PHE A 749	-1.960 -13.000 -8.666 1.00 39.67	С
MOTA	1791		-1.752 - 14.441 - 10.572 1.00 39.69	C
ATOM	1792		-1.425 - 14.132 - 9.260 1.00 39.69	С
MOTA	1793		-2.367 -10.121 -12.522 1.00 42.67	C
ATOM	1794		-1.237 -10.151 -12.036 1.00 42.30	0
ATOM	1795	O PHE A 749	-2.562 -10.072 -13.850 1.00 42.69	N
MOTA	1796	N PRO A 750	-3.821 -10.228 -14.599 1.00 42.04	C
MOTA	1797	CD PRO A 750	-1.413 -10.043 -14.769 1.00 42.15	Ç
MOTA	1798	CA PRO A 750	-2.077 -9.999 -16.143 1.00 42.26	C
ATOM	1799	CB PRO A 750	2.07, 25, 25, 201, 1, 00, 41, 75	C
ATOM	1800	CG PRO A 750	-3.330 -10.700 13.54E 1 00 42 03	С
MOTA	1801	C PRO A 750	-0.445 0.074 1.00 1.00 1.00	0
MOTA	1802	O PRO A 750	0.77	N
ATOM	1803	N GLU A 751	0.552	C
ATOM	1804	CA GLU A 751	0.101	C
ATOM	1805	CB GLU A 751	1.031 3.23 1 00 50 76	Č
ATOM	1806	CG GLU A 751	1.003	Ċ
ATOM	1807	CD GLU A 751	-2.000 -3.341 -1.000 1.00 55 27	Ö
ATOM	1808	OE1 GLU A 751	1.333	ő
ATOM	1809	OE2 GLU A 751	-5.050 5.500 10 010 1 00 40 35	Č
MOTA	1810	C GLU A 751	10 710 1 00 30 57	ŏ
MOTA	1811	O GLU A 751	1.742 0.233 1.700 1.00 20 00	N
ATOM	1812	N MET A 752	-0.111 -7.123 -11.799 1.00 38.08	C
ATOM	1813	CA MET A 752	0.402 7.503	C
ATOM	1814	CB MET A 752	-0.595 -7.724 -9.489 1.00 38.23	C
ATOM	1815	CG MET A 752	-0.112 -7.937 -8.071 1.00 42.16	S
ATOM	1816	SD MET A 752	-1.445 -7.665 -6.870 1.00 46.19	C
ATOM	1817	CE MET A 752	-2.793 -8.691 -7.530 1.00 45.95	C
MOTA	1818	C MET A 752	1.584 -8.346 -10.550 1.00 34.03	0
ATOM	1819	O MET A 752	2.563 -8.262 -9.820 1.00 32.78	Ŋ
MOTA	1820	N LEU A 753	1.425 -9.320 -11.440 1.00 33.01	C
ATOM	1821	CA LEU A 753	2.422 -10.373 -11.608 1.00 32.98	C
ATOM	1822	CB LEU A 753	1.899 -11.465 -12.541 1.00 31.89	C
MOTA	1823	CG LEU A 753	2.193 -12.888 -12.076 1.00 31.73	
ATOM	1824	CD1 LEU A 753	1.618 -13.097 -10.676 1.00 30.99	C
MOTA	1825	CD2 LEU A 753	1.595 -13.877 -13.065 1.00 29.81	C
ATOM	1826	C LEU A 753	3.678 -9.756 -12.201 1.00 32.62	C
ATOM	1827	O LEU A 753	4.785 -10.018 -11.741 1.00 33.11	0
ATOM	1828	N ALA A 754	3.493 -8.933 -13.228 1.00 32.32	N
ATOM	1829	CA ALA A 754	4.605 -8.254 -13.874 1.00 30.99	C
ATOM	1830	CB ALA A 754	4.103 -7.475 -15.079 1.00 29.43	C
ATOM	1831	C ALA A 754	5.236 -7.308 -12.852 1.00 30.53	C
	1832	O ALA A 754	6.452 - 7.145 - 12.803 1.00 30.15	0
ATOM	1833	N GLU A 755	4.392 -6.691 -12.034 1.00.30.94	N
ATOM	1834	CA GLU A 755	4.849 -5.767 -11.001 1.00 33.21	С
ATOM			3.656 -5.166 -10.273 1.00 33.78	C
ATOM:	1835		$3.448 - 3.690 \div 10.523 1.00 34.33$	C
ATOM	1836		2.067 -3.233 -10.090 1.00 36.38	С
MOTA	1837		1.619 -3.636 -8.989 1.00 34.46	0
ATOM	1838	OE1 GLU A 755	1.437 -2.468 -10.854 1.00 37.25	0
ATOM	1839	OE2 GLU A 755	5.733 -6.475 -9.991 1.00 35.08	С
ATOM	1840	C GLU A 755	6.781 -5.964 -9.598 1.00 37.12	0
MOTA	1841	O GLU A 755	5.298 -7.654 -9.568 1.00 36.05	N
ATOM	1842	N ILE A 756	6.047: -8.447 -8.609 1.00 37.46	. С
ATOM	1843	CA ILE A 756	5.212 -9.694 -8.185 1.00 35.45	С
MOTA	1844	CB ILE A 756	J. Z. Z. J. U.J. G. Z. G	

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ATOM	1845	CG2	ILE A	756	6.066	-10.679	-7.403	1.00 33.71	C
ATOM	1846	CG1	ILE A		4.009	-9.228	-7.353	1.00 33.65	C
ATOM	1847	CD1	ILE A		2.928	-10.264	- 7.139	1.00 31.03	C
ATOM	1848	C	ILE A		7.406	-8.855	-9.192	1.00 39.91	C
ATOM	1849	Õ	ILE A		8.449	-8.606	-8.584	1.00 41.68	0
ATOM	1850	Ŋ	ILE A		7.390	-9.461	-10.375	1.00 41.81	N
ATOM	1851	CA	ILE A		8.619	-9.896	-11.034	1.00 44.35	C
	1852	CB	ILE A		8.314	-10.434	-12.438	1.00 43.22	C
ATOM	1853	CG2	ILE A		9.610	-10.724	-13.190	1.00 43.25	C
ATOM	1854	CG1	ILE A		7.456	-11.692	-12.308	1.00 43.31	C
ATOM	1855	CD1	ILE A			-12.304		1.00 42.35	C
ATOM	1856	CDI	ILE A		9.615		-11.133	1.00 46.93	C
ATOM	1857	Ö	ILE A		10.809		-10.902	1.00 46.46	0
ATOM	1858	N	THR A		9.109		-11.487	1.00 50.20	N
ATOM	1859	CA	THR A		9.932	-6.382	-11.592	1.00 53.74	C
ATOM	1860	CB	THR A		9.231	-5.311		1.00 54.40	C
ATOM	1861	OG1	THR A		9.055	-5.820	-13.787	1.00 53.70	0
MOTA	1862	CG2	THR A		10.052	-4.018	-12.502	1.00 54.91	C
MOTA	1863	C	THR A		10.102	-5.869	-10.166	1.00 56.76	C
ATOM	1864	ŏ	THR A		9.394	-4.955	-9.737	1.00 57.99	0
ATOM	1865	N	ASN A		11.028	-6.488	-9.434	1.00 59.55	N
ATOM	1866	CA		759	11.309	-6.137	-8.039	1.00 60.54	C
ATOM ATOM	1867	CB		759	12.815	-6.199	-7.779	1.00 61.23	C
ATOM	1868		ASN A		13,334	-7.618	-7.714	1.00 62.21	C
ATOM	1869	OD1	_	759	14.543	-7.851	-7.755	1.00 62.16	0
ATOM	1870	ND2		759	12.421	-8.580	-7.604	1.00 61.69	N
ATOM	1871	C			10.773	-4.771	-7.625	1.00 60.85	C
ATOM	1872	ŏ			9.662	-4.665	-7.103	1.00 60.82	0
ATOM	1873	N	ASN A	768	17.782	7.993	-9.526	1.00 42.10	N
ATOM	1874	CA		768	17.798	8.350	-8.114	1.00 42.43	C
ATOM	1875	CB	ASN A	768	19.169	8.043	-7.520	1.00 44.48	C
ATOM	1876	CG	ASN A	768	19.082	7.501	-6.116	1.00 46.42	C
ATOM	1877	OD1		768	20.073	7.483	-5.384	1.00 48.28	O N
ATOM	1878	ND2		768	17.894	7.040	-5.732	1.00 47.49	N
ATOM	1879	C	ASN A	768	17.478	9.841	-7.945	1.00 41.65	C
ATOM	1880	0	ASN A	768	17.705	10.639		1.00 41.30	Ŋ
ATOM	1881	N	ILE A	769	16.971	10.212		1.00 39.53	C
MOTA	1882	CA	ILE A	769	16.590	11.599		1.00 37.58 1.00 36.18	C
MOTA	1883	CB	ILE A	769	15.302	11.668			C
ATOM	1884	CG2	ILE A	769	14.766	13.096			C
ATOM	1885	CG1	ILE A	769	14.237	10.735		1.00 36.83 1:00 36.20	Č
MOTA	1886	CD1		769	13.082	10.453		1.00 37.17	Č
MOTA	1887	C	ILE A		17.650	12.435		1.00 37.17	Õ
ATOM	1888	0	ILE A		18.352	11.956		1.00 35.61	N
MOTA	1889	N	LYS A	770	17.748	13.698		1.00 33.69	C
ATOM	1890	CA	LYS A	770	18.685	14.619		1.00 35.14	Č
MOTA	1891	CB	LYS A		19.528	15.322		1.00 37.32	C
MOTA	1892	CG	LYS A		20.472	16.357		1.00 40.79	C
ATOM	1893	CD	LYS A		21.177	17.126		1.00 44.20	C
ATOM	1894	CE	LYS A		22.085	18.206		1.00 44.96	N
MOTA	1895	NZ	LYS A		22.775			1.00 31.89	С
ATOM	1896	С	LYS A		17.892	15.659		1.00 29.17	0
ATOM	1897	0	LYS A		17.129			1.00 31.51	$\cdot N$
ATOM	1898	N	LYS A		18.070	15.658		1.00 30.94	C
ATOM	1899	CA	LYS A		17.371	16.600		1.00 31.94	C
MOTA	1900	CB	LYS A		17.429			1.00 35.14	C
ATOM :	1901	CG	LYS A		17.188	14.650		1.00 36.76	C
MOTA	1902	CD.			15.724	14.280		1.00 37.96	Ç
MOTA	1903	CE	LYS A		15.471	_		1.00 39.47	N
ATOM	1904	NZ	LYS A		15.670			1.00 30.30	C
ATOM	1905	C	LYS A		18.062			1.00 32.14	Õ
ATOM	1906	0	LYS A		19.175	_		1.00 28.13	N
ATOM	1907	N	LEU A		17.425				C
ATOM	1908	CA	LEU A		18.045			1.00 27.10	C
ATOM "	1909	CB	LEU A		17.360			1.00 27.41	C
ATOM	1910	ÇG	LEU A	112	17.483	20.570	-3.113		~

		an1	7 MM 7	770		16.690	21.444	-6.729	1.00 26.45	С
ATOM	1911		LEU A			18.947	20.523	-6.193	1.00 26.36	С
MOTA	1912	CD2	LEU A			17.954	20.919	-1.898	1.00 28.16	C
MOTA	1913	C				16.887	20.917	-1.270	1.00 28.07	0
MOTA	1914	0		773		19.084	21.457	-1.431	1.00 27.54	N
ATOM	1915	N		773		19.185	22.100	-0.118	1.00 27.61	C
ATOM	1916	CA	LEU A			20.014	21.244	0.832	1.00 22.94	С
ATOM	1917	CB	LEU A			19.632	19.829	1.232	1.00 23.69	С
ATOM	1918	CG	LEU A			20.844	19.157	1.862	1.00 18.12	C
MOTA	1919	CD1		773 773		18.456	19.862	2.199	1.00 22.12	С
ATOM	1920	CD2	LEU A			19.864	23.470	-0.162	1.00 29.74	С
ATOM	1921	C O	LEU A			20.782	23.693	-0.951	1.00 29.86	0
MOTA	1922 1923	N	PHE A			19.426	24.371	0.717	1.00 30.73	N
ATOM	1923	CA	PHE A			20.028	25.694	0.819	1.00 29.86	С
MOTA	1925	CB	PHE A			19.001	26.739	1.278	1.00 28.70	C
MOTA MOTA	1926	CG	PHE A			17.897	27.001	0.284	1.00 27.54	C.
ATOM	1927	CD1	PHE A			16.740	26.217	0.277	1.00 26.23	C _.
MOTA	1928	CD2				18.006	28.041	-0.640	1.00 26.58	C
MOTA	1929	CE1	PHE A			15.707	26.460	-0.631	1.00 24.45	C
ATOM	1930	CE2				16.971	28.298	-1.560	1.00 26.65	C
ATOM	1931	CZ	PHE A			15.820	27.502	-1.552	1.00 25.59	C
ATOM	1932	C	PHE A	774		21.162	25.630	1.846	1.00 30.75	C
ATOM	1933	0	PHE A	774		22.162	26.330	1.713	1.00 31.84	N
ATOM	1934	N	HIS A	775		20.999	24.788	2.867	1.00 32.46	C
ATOM	1935	CA	HIS A			21.996	24.638	3.927	1.00 34.79 1.00 33.07	Ç
MOTA	1936	CB	HIS A			21.427	25.120	5.257	1.00 33.70	Ċ
ATOM	1937	CG	HIS A			20.709	26.428	5.167	1.00 33.70	Č
MOTA	1938	CD2				19.388	26.724	5.215 4.966	1.00 34.26	N
ATOM	1939	ND1	HIS A			21.362	27.624 28.601	4.891	1.00 35.29	C
MOTA	1940	CE1	HIS A			20.474	28.081	5.037	1.00 34.15	N
MOTA	1941	NE2				19.269 22.417	23.185	4.080	1.00 37.89	C
ATOM	1942	C	HIS A			21.577	22.293	4.147	1.00 40.08	0
ATOM	1943	0	HIS A GLN A			23.719	22.944	4.159	1.00 42.42	N
ATOM	1944	N	GLN A			24.227	21.581	4.310	1.00 45.17	C
ATOM	1945 1946	CA CB	GLN A			25.664	21.501	3.791	1.00 46.91	C
MOTA	1947	CG	GLN A			25.998	22.538	2.720	1.00 49.96	С
MOTA	1948	CD	GLN A			24.979	22.582	1.595	1.00 50.90	C
ATOM ATOM	1949	OE1	GLN A			24.747	21.583	0.908	1.00 51.71	0
ATOM	1950	NE2				24.366	23.747	1.401	1.00 51.49	N
MOTA	1951	C	GLN A			24.187	21.145	5.778	1.00 45.57	C
ATOM	1952	Q·:	GLN A	776		24.275	21.978	6.690	1.00 45.48	o C
ATOM	1953	C1	486 A	800		-4.958	16.449	3.385	1.00 27.18	C
ATOM	1954	C2	486 A			-3.921	17.579	3.147	1.00 28.10 1.00 27.60	C
ATOM	1955	C3	486 A			-2.450	17.212	3.275	1.00 27.60 1.00 26.39	C
MOTA	1956	C4	486 A			-1.994	15.955	3.393	1.00 26.71	Č
MOTA	1957	C5	486 A			-2.905	14.788	3.360 3.103	1.00 26.77	Č
MOTA	1958	C6	486 A			-4.454	15.014	3.567	1.00 25.90	Ċ
ATOM	1959	C7	486 A			-0.433	15.812 14.649	4.483	1.00 27.23	C
ATOM	1960	C8	486 A			-0.189 -0.833	13.349	3.908	1.00 25.77	С
ATOM	1961	C9	486 A			-0.833	13.501	3.556	1.00 25.96	С
ATOM	1962	C10				-2.410 -0.571	12.327	5.059	1.00 25.42	С
ATOM	1963	C11				-1.124	10.917	4.855	1.00 27.24	С
ATOM	1964		486 A 486 A			-2.720	11.198	4.703	1.00 26.46	С
MOTA	1965	C13	486 A			-3.256	12.075	3.527	1.00 25.78	С
MOTA	1966		486 A		, 2	0.907	12.024	5.562	1.00 25.35	С
MOTA	1967 1968		486 A			0.785	10.627		1.00 25.11	С
ATOM	1968 19 6 9	C17				-0.701	10.124	6.183	1.00 26.20	C
MOTA	1969	03	486 A			-0.673	8.694	6.061	1.00 28.33	0
MOTA	1971	C18				-3.160	11.380	2.078	1.00 27.13	C
MOTA	1972	C19				-0.508	10.116	3.610	1.00 26.07	C
MOTA	1973	C22				-2.424	12.015	0.979	1.00 24.15	C
ATOM ATOM .	1974		486 A			-2.301	11.476	-0.327	1.00 23.04	C
ATOM .	1975		486 A			-2.912	10.208	-0.686	1.00 21.19	C.
ATOM	1976		486 A			-3.668	9.523	0.414	1.00 24.27	С
-17 011	•								•	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987	C26 N27 C28 C29 O30 C30 C31 C32 O01 C02 C03	486 486 486 486 486 486 HXD	A 800 A 800 A 800 A 800 A 800 A 901 A 901	-3.784 -2.840 -2.092 -4.180 -4.290 -2.243 -1.498 -3.042 -6.962 -6.160 -4.675	10.100 9.596 10.334 9.302 18.735 10.906 10.490 11.470 21.669 21.132 21.201	1.744 -2.012 -3.057 -2.551 2.915 8.320 7.421 9.451 -1.158 -2.215 -1.830	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	25.14 19.86 20.73 22.81 32.03 23.29 25.04 19.34 40.34 37.10 35.54	0 12 0 0 0 0 0 0 0 0 0
ATOM	1988	C04		A 901	-3.977	22.305	-2.609	1.00	33.89	C
MOTA	1989	C05			-2.492	22.415	-2.281	1.00	29.78	C
MOTA	1990	C06		A 901	-1.703	22.581	-3.573	$1.00 \\ 1.00$	28.47 29.00	C
ATOM	1991	C07	HXD		-0.207	22.706 23.950	-3.342 -3.865	1.00	26.97	0
ATOM	1992	008	HXD	A 901 A 902	0.234 5.824	13.089	-3.330	1.00	34.85	Ö
ATOM ATOM	1993 1994	C02		A 902	6.518	11.833	-3.324	1.00	38.64	C
ATOM	1995	C03	HXD		7.813	11.971	-2.525	1.00	38.20	C
ATOM	1996	C04	HXD		9.066	11.789	-3.388	1.00	40.00	C
ATOM	1997	C05	HXD	A 902	10.361	11.938	-2.554	1.00	41.48	C
ATOM	1998	C06	HXD	A 902	11.300	12.999	-3.154	1.00	43.04	C
ATOM	1999	C07	HXD		12.590	13.168	-2.355	1.00	42.99	C
ATOM	2000	008	HXD		12.681	14.514	-1.894 12.368	$1.00 \\ 1.00$	44.45 23.73	0
ATOM	2001	001		A 903	8.652 8.980	15.370 16.106	11.195		26.20	č
ATOM	2002	C02		A 903	10.498	16.203	11.133		26.89	č
ATOM	2003 2004	C03		A 903 A 903	11.039	17.441	11.767		31.18	C
ATOM ATOM	2004	C05		A 903	12.557	17.529	11.636		35.27	C
ATOM	2006	C06		A 903	12.982	18.908	11.151	1.00	38.80	C
ATOM	2007	C07		A 903	14.498	19.023	11.008	1.00	40.67	C
MOTA	2008	800	HXD	A 903	14.960	20.059	11.858		41.11	0
MOTA	2009	0		A1001	0.264	29.631	-4.946		15.69	0
ATOM	2010	0		A1003	4.922	9.264	18.053		23.93	0
ATOM	2011	0		A1004	10.793	17.474	-3.662 6.991	1.00 1.00	22.83 4.24	0
ATOM	2012	0		A1006 A1007	-8.926 21.555	23.876 33.956	4.100	1.00	13.73	Ö
ATOM	2013 2014	0		A1007	6.960	14.859	-1.622		29.61	0
ATOM ATOM	2014	0		A1010	10.525	18.968	0.100		20.63	0
ATOM	2016	Ö		A1011	12.358	13.474	1.582	1.00	34.18	0
ATOM	2017	Ö		A1012	-2.987	20.680	1.791	1.00	15.66	0
ATOM	2018	0	НОН	A1013	2.882	21.720	18.444		25.04	0
ATOM	2019	0	HOH	A1014	17.655	36.684	-2.546		20.06	0
MOTA	2020	0		A1015	2.631	28.765	-3.964		24.63	0
MOTA	2021	0		A1016	5.752	39.569	2.152		27.47 20.93	0
ATOM	2022	0		A1017	11.880		-19.991 -9.192	•	32.22	0
ATOM	2023	0		A1018	-2.943 -2.182	-1.298 6.572	-8.192 4.843		45.22	Ö
ATOM	2024	0		A1019 A1020	10.994	18.677	-6.811		12.21	Ö
ATOM ATOM	2025 2026	0		A1020	7.455	38.431	-3.850		25.68	Ō
TER	1	•		A1021	7.433					
END										

CLAIMS

- 1. A crystal comprising at least 150 amino acid residues of the GR ligand binding domain.
- 2. A crystal according to claim 1 comprising the amino acid sequence from Leu-532 to Leu-732 of a human GR shown in Figure 7 or an amino acid sequence having at least 95% identity with the sequence and which encodes for a GR ligand binding domain.
- 3. A crystal according to claim 1 or claim 2 comprising an amino acid sequence from Leu-35 to Leu-235 of Seq ID No. 1.
- 4. A crystal according to any preceding claim comprising an amino acid sequence from Leu-14 to Leu-214 of Seq. ID No. 2.
- 5. A crystal according to any preceding claim comprising an amino acid sequence from Leu-35 to Leu-235 of Seq ID No. 3.
- 6. A crystal according to any one of claims 1 to 5 comprising the entire GR ligand binding domain.
- 7. A crystal according to any preceding claim produced using a sequence including helix 9 of GR.
- 8. A crystal according to any one of claims 1 to 7 usable in X-ray crystallography.
- 9. A crystal according to any one of claims 1 to 7 including a ligand bound to GR or a portion thereof.

10. A crystal according to claim 9, wherein the ligand is a GR antagonist.

- 11. A crystal according to claim 8 in which the ligand is RU-486 [(11β,17β)-11-[4-(dimethylamino)phenyl]-17-hydroxy-17-(1-propynyl)-estra-4,9-dien-3-one, CAS registry number 84371-65-3], cortisol, dexamethasone or any other ligand that binds with high affinity (<100 nM to the internal GR binding cavity).
- 12. A crystal of GR LDB according to any preceding claim belonging to the space group $P2_12_12_1$ and having the unit cell dimensions a = 67.33 Å, b = 87.4 Å, c = 93.11 Å, $\alpha = \beta = \gamma = 90^{\circ}$.
- 13. A crystal of GR LDB according to any preceding claim belonging to the space group P6₅ and having the unit cell dimensions a=b=132.1, c=53. $\alpha = \beta = 90$, $\gamma = 120^{\circ}$.
- 14. A crystal of GR LDB according to any preceding claim belonging to the space group $P2_12_12$ and having the unit cell dimensions a= 74.5, b= 109.7, c= 39.1. $\alpha = \beta = \gamma = 90^{\circ}$.
- 15. A crystal of GR-LBD according to any one of claims 1 to 11 belonging to the space group P3; and having cell dimensions a=b=127.4, c=91.8, α = β =90°, γ =120°.
- 16. A crystal according to any of claims 1 to 15 having a resolution determined by X-ray crystallography of less than 3.6 Å.
- 17. A crystal according to claim 16 having a resolution determined by X-ray crystallography of less than 2.9 Å.
- 18. A machine-readable data storage medium, comprising a data storage material encoded with machine readable data which, when using a machine

programmed with instructions for using said data, is capable of displaying a graphical three-dimensional representation of a crystal structure according to any one of claims 1 to 17 or a homologue of said crystal structure.

- 19. A method for designing a potential glucocorticoid receptor ligand for the treatment of diseases modulated by the glucocorticoid, the method comprising the steps of:
 - c) employing computational means to perform a fitting operation between the chemical entity and a binding site of GR receptors identified from a crystal according to any one of claims 1-17, or a 3D representation obtained from a machine-readable storage medium according to claim 18.
 - d) analyzing the results of the fitting operation to predict the association between the potential chemical entity and the binding site;
 - c) synthesizing the potential glucocorticoid receptor ligand based on the crystal structure of the glucocorticoid receptor;
 - e) assaying the glucocorticoid receptor ligand for glucocorticoid receptor binding, response in a glucocorticoid reporter cell line, measuring in vivo effects including but not limited to hepatic glucose production, marker proteins such as tyrosine amino transferase, corticotropin-releasing hormone, or antiinflammatory response which indicates that the compound may be used for treatment of diseases modulated by the glucocorticoid receptor.
- 20. A method according to claim 19, wherein the binding pocket resides in the ligand binding domain have been identified.
- 21. A method according to claim 19, wherein said potential glucocorticoid receptor ligand is a glucocorticoid receptor antagonist.

22. A method according to claim 19, wherein said potential glucocorticoid receptor ligand is an agonist.

- 23. A method of designing a ligand which will bind to GR comprising comparing the shape of a compound with the shape of the ligand binding domain of GR as obtained from a crystal according to any one of claims 1 to 17, and determining which amino acid or amino acids of the ligand binding domain interact with said compound.
- 24. A ligand identified by a method according to any one of claims 19 to 22.
- 25. A ligand according to claim 23 or claim 24 which is an agonist or antagonist of GR.
- 26. A crystallized molecule or molecular complex comprising a binding pocket defined by the structure coordinates of human GR ligand binding domain amino acid residues MET560, LEU563, ASN564, LEU566, GLY567, GLY568, GLN570, TRP600, MET601, MET604, ALA605, LEU608, PHE623, MET646, LEU732, CYS736, ALA748 or a homologue of said molecule or molecular complex wherein said homologue has a root mean square deviation form the backbone atoms of said amino acids of not more than 1.5Å.
- 27. A machine-readable storage medium, comprising data storage material encoded with machine readable data, wherein the data is defined by all or a portion of the crystalized molecule or molecular complex according to claim 26.
- 28. A crystallisable composition comprising at least 150 amino acid residues of the GR ligand binding domain.
- 29. An isolated protein consisting of the amino acid sequence shown in Seq. ID1, Seq. 1D2 or Seq. ID3.
- 30. An isolated protein having an amino acid sequence identical to the amino acid sequence used in a crystal according to any one of claims 1 to 6.

31. A method of obtaining structural information about a molecule or a molecular complex of unknown structure by using structure coordinates as set out for any one or more of the GR complexes shown in the Annex, comprising the steps of:

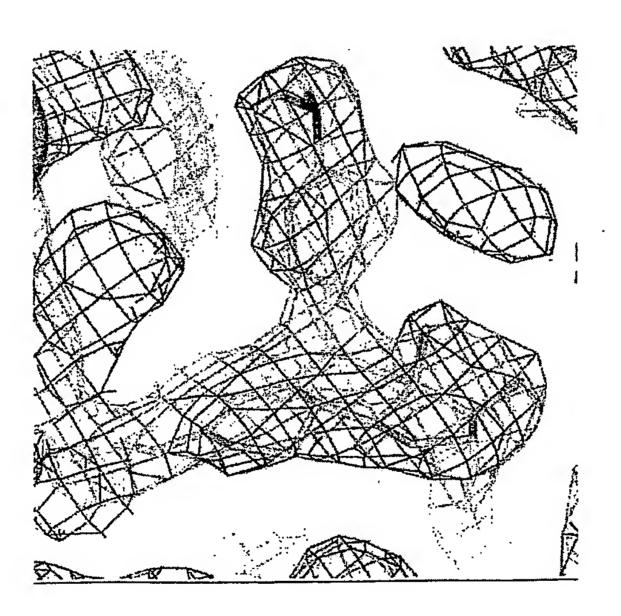
- a) generating X-ray diffraction data from said crystallised molecule or molecular complex;
- b) applying at least a portion of the structure coordinates set forth in the Annex to generate a three-dimensional electron density map of at least a portion of the molecule or molecular complex.

Affinity enhancing substituents marked by "R".

$$\begin{array}{c} \text{G-face} \\ \text{R}_{11\beta} \\ \text{R}_{10\beta} \\ \text{H} \\ \text{R}_{14\alpha} \\ \text{R}_{7\alpha} \\ \end{array}$$

Figure 1.

Figure 2



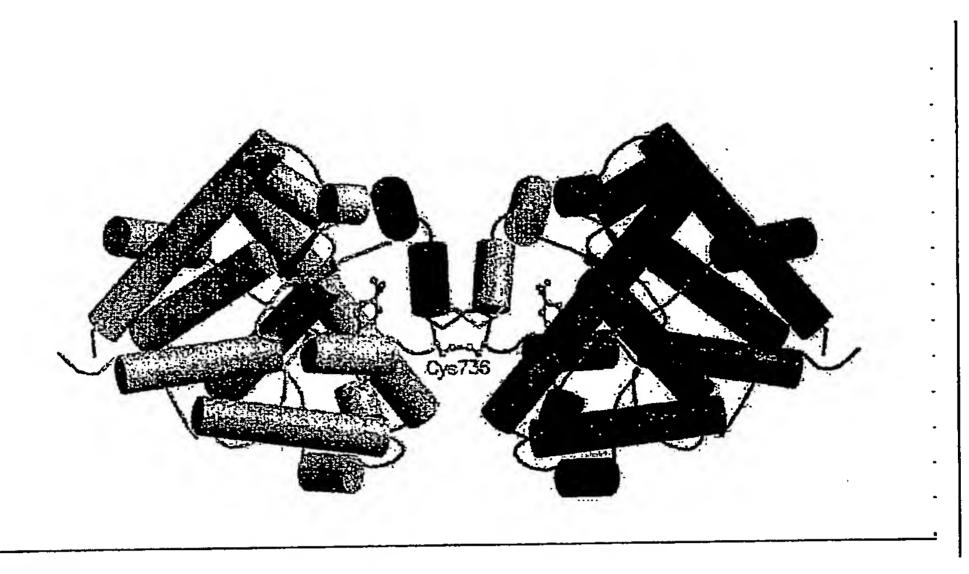


Figure 3

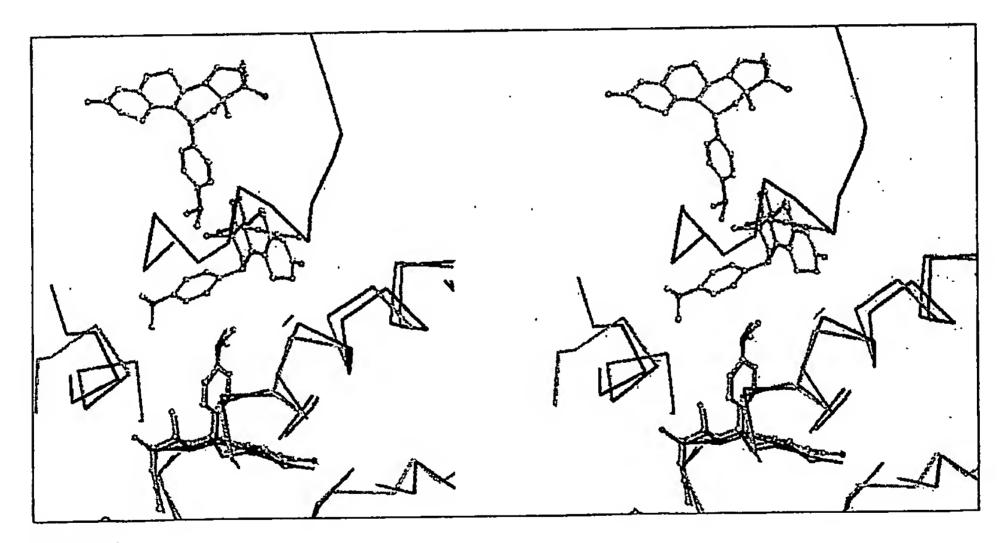


Figure 4

Figure 5

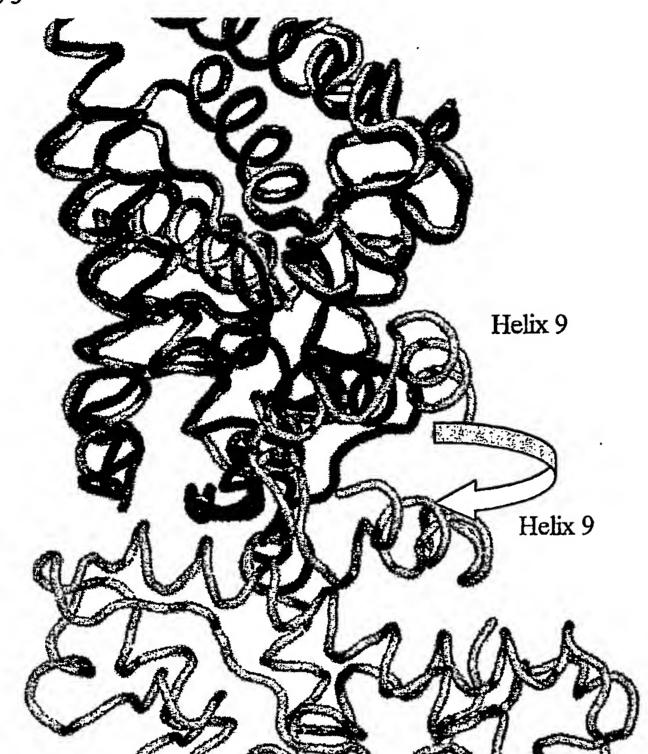
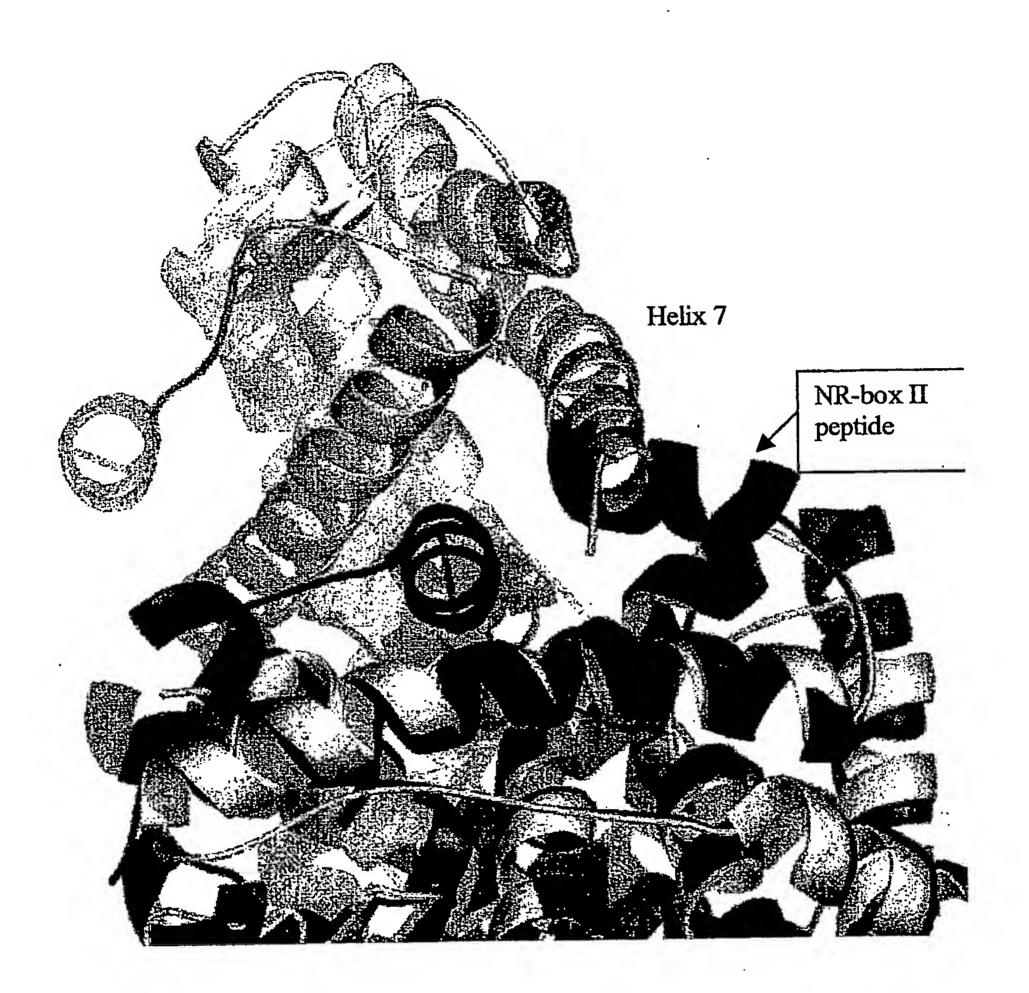


Figure 6



CLUSTAL W (1.81) multiple sequence alignment

Figure

GR1 GR3 GR2 gil121069 sp P04150 GCR_hUMAN	MDSKESLTPGREENPSSVLAQERGDVMDFYKTLRGGATVKVSASSPSLAV 50
GR1 GR3 GR2 gi[121069 sp[P04150 GCR_HUMAN	ASQSDSKQRRLLVDFPKGSVSNAQQPDLSKAVSLSMGLYMGETETKVMGN 100
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	
GR1 GR2 gi 121069 sp P04150 GCR_HUMAN	PTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLYTTDQSTFDILQDLEFS 200
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	SGSPGKETNESPWRSDLLIDENCLLSPLAGEDDSFLLEGNSNEDCKPLIL 250

GR1 GR3 GR2 gil121069 sp P04150 GCR_HUMAN	PDTKPKIKDNGDLVLSSPSNVTLPQVKTEKEDFIELCTPGVIKQEKLGTV 300
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	YCQASFPGANIIGNKMSAISVHGVSTSGGQMYHYDMNTASLSQQQDQKPI 350
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	FINVIPPIPVGSENWNRCQGSGDDNLTSLGTLNFPGRTVFSNGYSSPSMRP 400
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	DVSSPPSSSTATTGPPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVE 450
GR1 GR3 GR2 gi 121069 sp P04150 GCR_HUMAN	GOHNYLCAGRNDCIIDKIRRKNCPACRYRKCLOAGMNLEARKTKKKIKGI 500
GR1 GR3 GR2 gil121069[sp P04150 GCR_HUMAN	QQATTGVSQETSENPGNKTIVPATLPQLTPTLVSLLEVIEPEVLYAGYDS 53 QQATTGVSQETSENPGDKTIVPATLPQLTPTLVSLLEVIEPEVLYAGYDS 53TIVPATLPQLTPTLVSLLEVIEPEVLYAGYDS 32 QQATTGVSQETSENPGNKTIVPATLPQLTPTLVSLLEVIEPEVLYAGYDS 550

253 253 225 750 203 182 153 153 132 650 700 203 103 900 H9 IVKREGNSSONWORFYOLTKLLDSMHEVVENLLNYCFOTFLDKTMSIEFP IVKREGNSSONWORFYOLTKLLDSMHEVVENLLNYCFOTFLDKTMSIEFP IVKREGNSSONWORFYQLTKLLDSMHEVVENLLNYCFQTFLDKTMSIEFP SELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKA SELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKA SELHRLQVSYEEYLCMKTLLLLSSVPKDGLKSQELFDEIRMTYIKELGKA SELHRLQVSYEEYLCMKTLLLLSSVPKÖGLKSQELFDEIRMTYIKELGKA IVKREGNSSQNWQRFYQLTKLLDSMHEVVENLLNYCFQTFLDK-----********************************* MFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPDMYDQCKHMLYVS MFLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVS ALGWRSYROSSANLLCFAPDLIINEQRMTLPDMYDQCKHMLYVS MSLMAFALGWRSYRQSSANLLCFAPDLIINEQRMTLPDMYDQCKHMLYVS SVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSW SVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSW SVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSW SVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSW ****************** H8 ******************* **< < < < < < < < < < < ~~~** SI S4 H3 H5 ***** ***** MELMAE 9H Нq gi | 121069 | sp | P04150 | GCR_HUMAN gi|121069|sp|P04150|GCR_HUMAN gi|121069|sp|P04150|GCR_HUMAN gi | 121069 | sp | P04150 | GCR HUMAN GR3 GR2 GR3 GR1 GR2 GR2 GR3 GR3 GRI GR1 GR2

EMLAEIITNQIPKYSNGNIKKLLFHQK EMLAEIITNQIPKYSNGNIKKLLFHQ-EMLAEIITNQIPKYSNGNIKKLLFHQK

H9

GR1 GR3 GR2 gi|121069|sp|P04150|GCR_HUMAN

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the begin-

(54) Title: GLUCOCORTICOID RECEPTOR PROTEIN CRYSTALS

(57) Abstract: The present invention is in the fields of biotechnology, protein purification and crystallization, x-ray diffraction analysis, three-dimensional computer molecular modeling and rational drug design. The invention is directed to the glucocorticoid receptor and ligands for this receptor, and in particular to crystalline glucocorticoid receptor (GR) and to methods of identifying ligands utilizing GR, as well as to compounds, compositions and methods for selecting, making, and using therapeutic or diagnostic agents having GR modulating or binding activity.

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP 03/04900

A CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/72 G06F19/00 G01N33/48 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) CO7K G06F G01N IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) BIOSIS, EPO-Internal, WPI Data, PAJ, MEDLINE C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° WO 03 015692 A (APOLITO CHRISTOPHER J 1-23, P,X ; LAMBERT MILLARD H III (US); SMITHKLINE 26-31 BEEC) 27 February 2003 (2003-02-27) the whole document RANDY K. BLEDSOE ET AL: "Crystal 1-23,P,X Structure of the Glucocorticoid Receptor 26-31 Ligand Binding Domain Reveals a Novel Mode of Receptor Dimerization and Coactivator Recognition" CELL, vol. 110, 12 July 2002 (2002-07-12), pages 93-105, XP002257981 the whole document Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not. cited to understand the principle or theory underlying the considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention flling date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. "P" document published prior to the international filing date but "&" document member of the same patent family later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 0 7 NOV 2003 16 October 2003 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, YVONNE SIÖSTEEN /EÖ

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International Application No PCT/EP 03/04900



International Application No
PCT/EP 03/04900

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE REGISTRY FILE [Online] XP002258182 RN 289516-93-4 99% identity in 276aa with SEQ ID No 1 and 99% identity in 224aa with SEQ ID No 2, RN 289516-93-4 99% identity in 248aa with SEQ ID No 3 abstract	29,30
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	-& WO 00 52050 A (GILLNER M ET AL) 8 September 2000 (2000-09-08) figures 2A,11,	
A	CATHERINE ROBIN-JAGERSCHMIDT ET AL: "Residues in the Ligand Binding Domain That Confer Progestin or Glucocorticoid Specificity and Modulate the Receptor Transactivation Capacity" MOLECULAR ENDOCRINOLOGY, vol. 14, no. 7, 2000, pages 1028-1037, XP002257984	1-23, 26-28,31
X	the whole document	29,30
A	DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; August 2001 (2001-08) DEY R ET AL: "Homology modelling of the ligand-binding domain of glucocorticoid receptor: binding site interactions with cortisol and corticosterone." Database accession no. NLM11579225 XP002257985 abstract & PROTEIN ENGINEERING. ENGLAND AUG 2001, vol. 14, no. 8, August 2001 (2001-08), pages 565-571, ISSN: 0269-2139	1-23, 26-31
A	WO 99 50658 A (GREENE GEOFFREY L ;AGARD DAVID A (US); ARCH DEV CORP (US); KUSHNER) 7 October 1999 (1999-10-07) the whole document	1-23, 26-31
A	B.F. LUISI ET AL: "Crystallographic analysis of the interaction of the glucocorticoid receptor with DNA" NATURE, vol. 352, 8 August 1991 (1991-08-08), pages 497-505, XP002257986 the whole document	1-23, 26-31



International Application No PCT/EP 03/04900

Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
ategory °	it is display where appropriate, of the relevant passages	Relevant to claim No.
A	WILLIAM BOURGUET ET AL: "Crystal structure of the ligand-binding domain of the human nuclear receptor RXR-alpha" NATURE, vol. 375, 1 June 1995 (1995-06-01), pages 377-382, XP002257987 the whole document	1-23, 26-31
A	YIHOUNG WAN ET AL: "Separable Features of the Ligand-Binding Domain Determine the Differential Subcellular Localization and Ligand-Binding Specificity of Glucocorticoid Receptor and Progesterone Receptor" MOLECULAR ENDOCRINOLOGY, vol. 15, no. 1, 2001, pages 17-31, XP002257988 the whole document	1-23, 26-31
A	DATABASE BIOSIS [Online] BIOSCIENCES INFORMATION SERVICE, PHILADELPHIA, PA, US; 23 June 2000 (2000-06-23) LIND ULRIKA ET AL: "Functional probing of the human glucocorticoid receptor steroid-interacting surface by site-directed mutagenesis: Gln-642 plays an important role in steroid recognition and binding" Database accession no. PREV200000369093 XP002257992 abstract & JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 275, no. 25, 23 June 2000 (2000-06-23), pages 19041-19049, ISSN: 0021-9258	1-23, 26-31
A	JAN- KE GUSTAFSSON ET AL: "Structure, function and regulation of the glucocorticoid receptor" PROGRESS IN CLINICAL AND BIOLOGICAL RESEARCH, vol. 322, 1990, pages 65-80, XP002257989 the whole document	1-23, 26-31

International application No. PCT/EP 03/04900

INTERNATIONAL SEARCH REPORT

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 24-25 because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple Inventions in this international application, as follows:
•
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
A. No required additional search fees were timely pald by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

International Application No. PCT/EP 03 /04900

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 24-25

Present claims 24-25 relate to compounds identified by the method disclosed in claims 19-22. Claims 24-25 relate to an extremely large number of possible compounds, including known compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 is not to be found for any such compounds. In the present case, the claims so lack support and the application so lacks disclosure. These claims have not been searched.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP 03/04900

Information on patent family members

Patent family Publication **Publication** Patent document member(s) date date cited in search report 27-02-2003 27-02-2003 03015692 A2 WO 03015692 A WO 08-09-2000 AU 2818200 A 21-09-2000 WO 0052050 A WO 0052050 A2 08-09-2000 07-10-1999 18-10-1999 AU 3457199 A WO 9950658 A 5769099 A 06-12-1999 AU CA 25-11-1999 2323575 A1 CA 2324060 A1 07-10-1999 EP 1144997 A2 17-10-2001 ΕP 1068529 A2 17-01-2001 JP 2002516983 T 11-06-2002 2003523498 T 05-08-2003 JP 9960014 A2 25-11-1999 WO 07-10-1999 9950658 A2 WO 2002061539 A1 23-05-2002 US

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